## AMERICAN

# UNIVERSAL MAGAZINE.

No. VI.]-MARCH 7, 1798 .- [Vol. IV.

Embellished with a portrait of Abbe Chappe.

#### CONTAINING,

The Life of Abbe Chappe			20 m	Page	361
Life of John Fothergill (concluded)	WAR SE		Silve		37X
Account of Diogenes					373
Maurelle's account of the Indians of	Perto	de la	<b>Trinidad</b>		376
Bellevue's memoirs on fome new fle					382
M. de Luc on Gravity		N -96 -	3.25		384
De Saussure's account of a journey	to the	op of	he Alpa		387
Account of the Grifgris and Mumbe			3386		395
Short history of Agriculture	The state of				398
Life of Mrs. Siddons -		- 1		- Paris	402
On afcribing the intelligence of man	to his	form,	from St	. Pierre	
On Domestic Economy -		1000		. 600	416
Bertholon on fires, and on the means	of exti	nguishi	ing them		413
Remarkable Instance of Great patier		是把是公			420
Biographical notices of Fenelon					422
Method of increasing Potatoes			•	£ . 6 5 3 34	423
Anccdotes		SANS		3-1-	424
VE		A 2020/95/39 A	ALTERNATION AND ADDRESS OF THE PARTY OF THE		0000 m

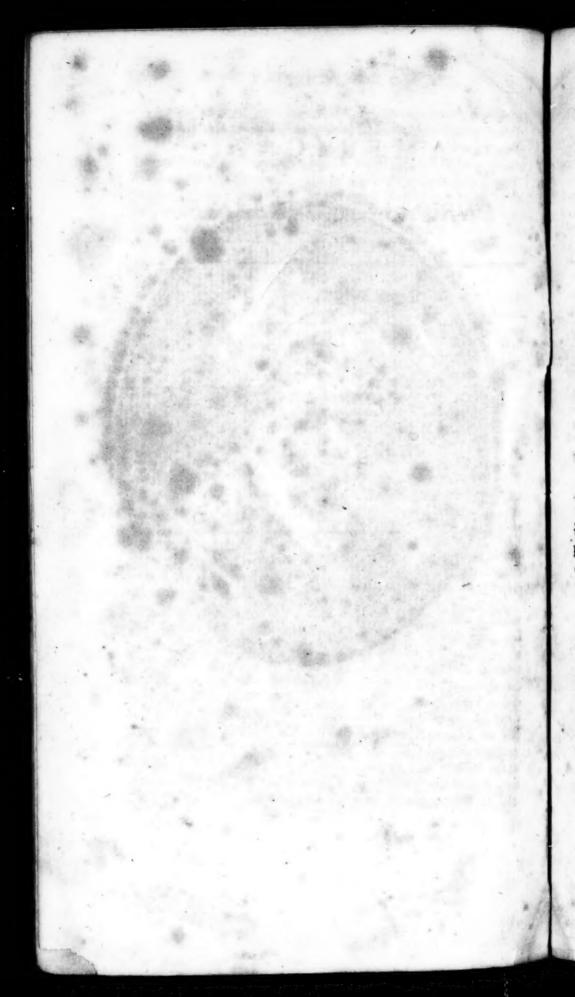
#### POETRY.

Eulogium on Sir William Jones	423		. 48	425
Hymn, written by La Source and Sillery				426
Sailor's Description of a Masquerade		1		427
On Su'cide	148	•		429
Verses sent to a Lady on her Birth Day	KINDS:	1999		410

### PHILADELPHIA:

PRINTED BY SAMUEL H. SMITH and THOMAS SMITH,
No. 118, Chefout street.

Where communications will be received.



## AMERICAN

## UNIVERSAL MAGAZINE.

MARCH 7, 1793.

## LIFE OF THE ABBE CHAPPE.

WITH AN ELECANT HEAD.

OHN Chappe d'Auteroche was born at Mauriac, a town in Upper Auvergne, on the 23d of May, 1728, of John Chappe, lord of the barony of Auteroche, and Magdalen de la Farge, daughter of Peter de la Farge, lord of la Pierre, and major in

the regiment of Royal Carabiners.

Young Chappe, from the moment of his birth, enjoyed the valuable advantage of not being under the necessity of struggling like many men of genius, with adversity and penury, which, too often, fall to the lot of merit, and by obscuring the most brilliant talents, check their efforts, and retard their advancement. The distinguished rank which his parents held in their province, added to their wealth and opulence, enabled them to bestow upon their son an excellent education, the foundation of which was laid at Mauriac, where he began his studies. Having made considerable progress here, he went, afterwards, to finish them at the college de Louis le Grand, as the celebrity of its professors, at that time, seemed to promise him the happiest success, and his hopes, indeed, were not disappointed.

th

th

21

o

W

T(

1

Young Chappe, from his earliest infancy, shewed a wonderful turn for drawing and the mathematics. Descartes was scarcely eight years of age when he was styled a philosopher; young Chappe, in the like manner, might have been I onoured with the title of a mathematiciar. An irresistible impulse, and singular disposition, as if innate, led him to draw plans, and made calculations; but these pursuits, quite foreign to the studies in which he was then engaged, occupied no part of that time which was allotted for them. He applied to the former only at those moments which the regulations of the college suffered him to call his own.

Genius, which is always active, made the Abbe Chappe discover, in the silence and solitude of the cloister, resources which he little expected. During his course of philosophy, he formed an acquaintance with a Carthusian, named Dom Germain, from whom he learned the elements of mathematics and of astronomy. In these two sciences he made a rapid progress; for the zeal of the master was well seconded by the diligence of the scholar, who sollowed his literary pursuits with the same ardour and enthusiasm, as the generality of young men follow dissipation

and pleafure.

So fingular a phenomenon could not long remain unknown. Father de la Tour, then principal of the college, being struck with young La Chappe, mentioned him to Mr. Cassini, and spoke of the progress he had made in such high terms, that the latter became very desirous to see some of his works. After tausing him to make a sew trials in his presence, that celebrated academician could not help admiring his happy disposition; but he did not consine himself to praise only. Being a warm patron and protector of merit, because he possessed a great deal himself, he that moment resolved to cultivate young Chappe's talents, and to endeavour to render them useful to society. With this view, he employed him in taking plans of several of the royal buildings, and made him assist in delineating the general map of France.

The Abbe Chappe, however, made himself known in the astronomical world, by a work of much greater importance. The vast genius of Halley, embracing the celestial universe, had comprehended the whole system and harmony of the stars. Futurity had displayed itself before the eyes of this great man; and, in his astronomical tables, he had traced out the path in which the planets were to pursue their courses; calculated their eclipses; and, by an injenious application of his theory to the

parallaxes of Venus and the fun, had been able to announce that the transit of the former over the sun's disk would furnish the means of determining the distance of that luminary from the earth. These tables, the result of repeated observations, and of laborious application, were to many people as dark and obscure as the responses of the ancient oracles; besides, as they were published in English, they were lost to a great part of Europe, though absolutely necessary for those who wished to devote their attention to the study of the heavens. The Abbe Chappe, therefore, undertook to remedy this deficiency; and, by translating Halley's work, he rendered an essential service to his countrymen. This translation appeared in 1752; and the additions which the translator made, and the new inductions which he drew from the labours of the English astronomer, placed him almost on a level with the author.

The Abbe Chappe had now given too striking a specimen of his talents not to attract the notice of Government. The king having ordered plans of several places in the county of Bitche, in Lorraine, to be taken, and the forest in the neighbourhood of the town of the same name, to be surveyed, the Abbe Chappe's merit procured him the superintendance and direction of this bufiness; and the event shewed, that the ministry could not have chosen a person more deserving of their considence. Men of ordinary abilities take advantage of proper occasions; but the man of genius alone knows how to create them. The Abbe Chappe, in the midst of forests, under a cloudy and unfavourable tky, without instruments, and without observatory, encountered difficulties which might have discouraged any other person: but they served only to augment his ardor. In a neighbouring court, celebrated for patronizing the fine arts, he found every instrument which he had occasion for, and in unshaken constancy, resources that enabled him to surmount every obstacle. Employed, during the day, in executing those plans which he was commissioned to take, he devoted the night to astronomical observations, which were attended with more success than he could well have hoped for; and which ferved to clear up a very important point in geography, by determining the real polition of the the town of Bitche, a kind of problem that had never before been refolved.

On his return from this expedition, he was chosen a member of the Royal Academy of Sciences; and on the 17th of January, 1759, he obtained the place of affishant astronomer, vacant

The Hha

by the promotion of Mr. De la Lande to that of affociate. This reward, so justly merited, and the only one which he aspired at, was the more flattering, as it introduced him to the acquaintance of all the learned men who composed that illustrious body.

The two comets which appeared in 1760 gave the Abbe an opportunity of shewing that he was not unworthy of the honour conferred on him; he observed them both with the greatest assiduity and attention, and the result of his observations was published in the memoirs of that year, with resections on the zodiacal light, and an aurora borealis, which appeared about the

fame period.

As the transit of Venus, over the fun's disk, which Halley announced would take place on the 6th of June, 1761, feemed to promife great advantage to aftronomy, it very much excited the curiofity of the learned throughout all Europe. It was necessary, however, in order to derive benefit from it, that it should be observed in some very remote places; and as Tobolsk, the capital of Siberia, and the island of Roderige, in the East Indies, were thought to be the propereft, the difficulty was to find aftronomers bold enough to transport themselves thither. But what will not the love of science prompt men to do? Mr. Pinge offer. ed to go to the island of Roderigo, and Tobolsk remained to Abbe Chappe, who, had the matter been left to hunfelf, would have made no other choice. Mr. Fouchy, the author of the Abbe's eloge, fays, "The one went to encounter the ardours of the torrid zone, and the other to traverse the ice of a region more truly hyperborean than those which the ancients distinguished by that name."

The Abbe having received his majesty's order, and recommendations from the learned body of which he was a member, set out for the place of his destination in the month of November, 1760. In the course of his journey, he experienced all those statigues and dangers which were to be expected in so advanced a season; and, on account of the war which then prevailed, he was obliged to travel by the way of Vienna and Poland. At these wo courts, he received the most stattering reception, from the Count de Choiseul and the Marquis de Paulmi, both equally distinguished by their zeal for the welfare

of their country, and for the advancement of science.

After reliding a fhort time at Vienna and Warlaw, during which he had the honour of being presented to their Imperial Majesties and the King of Poland, the Abbe set out for Petersburgh, where he arrived on the 12th of February, after many

difagreeable accidents. A more infurmountable obstacle, however, which he had not thought of, awaited him in the capital. and he found himself on the point of losing the whole fruit of his journey. The aftronomers chosen by the Academy of Petersburgh to observe the transit, had departed a month before: and belides this, the fpot affigned them, being not fo far diffant as Tobolik, was less favourable to astronomical observations than that city. The Abbe, therefore, faw himself in a very difagreeable fituation, and his whole fear was that, by new delays, he should be prevented from seizing the moment proper for observing a phenomenon long expected by astronomers: but the sciences luckily found a protector in the Baron de Breteuil, then ambassador from the court of France to that of Russia. By the activity of that minister, and the assistance of Mr. de Woron. zof, grand chancellor, every difficulty was removed; and the Empress Elizabeth gave orders for the Abbe's departure, which was fixed for the 10th of March.

ır

This favour, the object of our academician's wishes, seemed likely to prove his ruin. It was, indeed, very imprudent, at such an epoch, to run the risk of crossing a country eight hundred leagues in extent, which lies between Petersburgh and Tobolsk; but the Abbe was indebted for his safety to the intenseness of the frost, and the velocity of the sledges, which was so great in rivers, he tells us, that being on that of Docka, one of the possilions could not turn aside the horses of his sledge speedily enough to avoid a hole where the water was not froze, and into which the horse sell; yet the ice in the neighbouring parts was above three feet thick.

It is a very fingular phenomenon, and demonstrates, in an evident manner, the efficacy of friction and motion to produce heat, that many holes of the like kind, where the water never freezes, are to be met with on the rivers of Siberia, though, at the same time, brandy, and other spirits, cannot preserve their liquidity.

This was not the only danger to which the Abbe was exposed, in the course of his journey. One cannot read, without a certain impression of horror, mixed, however, with some pleasure, the striking and just picture which he exhibits of the perils that threatened him every moment, amidst the ice and the snow. If the thermometer, the only thing which announced the approach of a thaw, promised him a milder sate, by a decrease of the told, his sears were augmented by a dread of being forced to remain amidst the forests of Siberia. The account which he

has left of that frightful country is melancholy; almost beyond description. "No bird," says he, "announced the approach of spring. The magpies and crows, which are found in great numbers on all the roads throughout Russia, had even abandoned these desarts, and Nature appeared as if in a state of torpor. I could perceive, by the traces of sledges only, that these places were inhabited; a gloomy sadness every where prevailed; and the universal silence that reigned was never interrupted, but by the cries of some one of the company, who had sallen from his

fe

fledge, calling out for affiftance."

After travelling a month in this laborious manner, our intrepid aftronomer arrived at Tobolsk, where ignorance and superstition prepared new dangers for him. Rude and barbarous people, struck with the magnificent spectacle exhibited by the heavenly bodies, have often taken for the Divinity what is only the effect of his power. In their blindness, they almost all adore the fun and the moon, because they are more sensible of their immediate influence; and, on this account, they afcribe inpernatural power to those who seem to have any intercourse with the heavens. This error, which, even in Europe, gave birth to the follies of astrology, had almost deprived the Abbe Chappe of his life. The Russians, attentive to all his actions, beheld his preparations with the utmost terror: the observatory which he caused to be erected, and the instruments he transported thither, encreased their alarm, and the overflowing of the river Irtish, which inundated part of the city, a natural consequence of the thaw that took place, ferved still to confirm them in their fuspicions. Mr. Ismaelof, the governor of Tobolsk, a very enlightened man, to whom we are indebted for a correct chart of the Caspian Sea, was, therefore, obliged to give the Abbe a guard for his protection; and for the first time, perhaps, the sciences, whose empire is founded on peace and happiness, were under the necessity of using violence, and of establishing themselves, if we may use the expression, by the force of arms.

The moment so long wished for, and purchased by so much labour, being at length arrived, the Abbe, on the 5th of June, made every necessary preparation for observing the transit; but the pleasure which he anticipated from the success of his expedition, was not free from a mixture of pain; for the sky, during the night, became quite overcast. This was a new source of uneasiness to the Abbe; but luckily for science, a savourable wind, which sprung up at sun rise, revived his hopes, by withdrawing the veil that obscured the object of his researches. The observation was made with the necessary, precision, in presence

of Mr. Ismaelof, Count de Pouskin, and the archbishop of Tobolsk; and the academy of sciences at Paris, as well as that of Petersburgh, received the particulars of this event soon after, by a courier which Mr. Ismaelof immediately dispatched.

Astronomy was not the only study which engaged the attention of a genius so extensive as that of the Abbe Chappe: he applied also to mineralogy, experimental philosophy, and natural history. Assisted by Mr. Delisle, he rectified the imperfections of the Russian charts; and, at the same time, made a feries of experiments respecting electricity, which he compared with those made at Bitche, in Lorraine, in 1757. His observations discovered, that in Siberia, where he found electricity much stronger than any where else, lightning sometimes ascended; and he conjectured, that it often rises from the earth without noise, by means of conductors invisible to us; and that it never produces thunder till it has arrived at a certain height.

The great rains which fell while he was in this country, prevented him from carrying his refearches farther. He was therefore preparing to return, when his conflictation, which had hitherto withstood the influence of a climate for which it was not formed, yielded to the effects of a disorder, brought on, perhaps, by the fatigue and labour he had undergone. He was attacked by an al nost continual vomitting of blood, accompanied with so great weakness that he could scarcely walk. These circumstances made him hasten his departure, and quit, as soon as possible, a country where the healing art, on a level with other sciences, that is to say, enveloped in the grossest clouds of ignorance, was acquainted with no other remedy than the use of stoves.

Being an accurate observer, the Abbe Chappe suffered no remarkable object in the country which he traversed to escape his notice. It is true, that in these desarts, they were more uncommon than he could have wished; but he found in the mines of Katerinburg, the only ones almost which the Russians possess, enough to gratify his curiosity. He descended into them; examined them with the utmost care; and made excellent remarks on the nature of the surrounding soil, the quality of the metals they produce, and the manner in which they are worked.

From Katerinburgh he proceeded to Casan, the capital of the kingdom of the same. The fight of this city, situated in a temperate climate, afforded him the more pleasure, as it reminded him in some measure of his own country. Trees load-

ed with fruit, which the cold had respected; gardens laid out with taste, and a certain air of grandeur, and opulence, all concurred to preserve the agreeable illusion. The governor, a Tartar prince, shewed him every mark of kindness; and he was well received also by the archbishop, whose mind, cultivated by the study of literature, and the sciences, had preserved itself from the contagion of fanaticism and superstition. "This says, the Abbe, in the account of his journey, "was the only priest I saw, in these vast territories, who did not appear assonished, that one should come from Paris to Tobolsk to observe Venus."

lo

no

01

21

li

C

f

a

t

Z v t

a

f

1

The glory of this observation had preceded the Abbe, and prepared new honors for him at Peterfburgh. The Empress, with a view of inducing him to fettle there, made him an offer, by means of Baron de Breteuil, of the distinguished place which had been occupied by Mr. Delisse. The advantages, however, attending this fituation, though very confiderable, were no balance in the Abbe's heart, to the love of his country, and the fentiments of gratitude which he entertained for the kindness of his fovereign. The Abbe therefore rejected the offers made him; but he spent the winter at Petersburgh, and did not return to Paris, till the month of August, 1762, after being ablent from it two years. Immediately after his arrival, he began to prepare an account of his journey, which was published, in 1768, in three volumes quarto, elegantly printed, and adorned with engravings; but it is much to be regretted that the style is not always frited to the magnificence of the work. It was, however, much esteemed; and would, perhaps be more so, were it better known, as the author gives a most minute and instructive account of every thing respecting his journey, which was undertaken principally with a view of observing the transit of Venus at Tobolk. The philosopher will find in it the history of mankind and of nature; and the statesman the political system and interest of nations.

The Abbe has omitted nothing that could add to the know-ledge which we have of an ignorant and brutal people, who, when they came from the hands of the Czar Peter, if we may use the expression, at the beginning of this century, had no connection with the civilized part of Europe, and who, in our days, have so much influence over the affairs of the North. The Abbe Chappe seems too desirous of combating the opinion formed of Russia, and which the success of its arms perhaps justifies. "My friend," says he, "wrote to me from the capital of France.

to examine thoroughly that country, from which fwarms of people, at a moment's warning, might iffue like the Huns, and fwallow up all the rest of Europe: Instead of these people, I found

nothing but defarts and marshes."

The great labour required to prepare this work for publication, did not interrupt the Abbe's astronomical pursuits. He enriched the memoirs of the academy with several instructive pieces, and that which he presented in 1767, is the more valuable, and it confirms the experiments made upon electricity at Tobolsk, and demonstrates the identity of the electric shuid with

lightning.

f

19.

1

, h

0

f

2

0

t

d

y 0

e

Another transit of Venus, which, according to astronomical calculations, was to take place on the 3d of June, 1769, afforded the Abbe Chappe a new opportunity of manifesting his zeal for the advancement of astronomy. California was pointed out as the properest place in that quarter for observing this phenomenon; and the Abbe, who had triumphed over the severity of the North, thought he could brave also the ardors of the torrid zone. He departed therefore, from Paris in 1768, in company with Nr. Pauly, an engineer, and Mr. Noel, a draftsman, whose talents gave reason to hope, that he might contribute to render the expedition interesting, in more respects than one. He carried with him a watchmaker also, to take care of his instruments, and to keep them in proper repair.

On his arrival at Cadiz, the veffel belonging to the Spanish flota, in which he was to embark for Veracruz, not being ready in time, he obtained an order for equipping a brigantine, which carried twelve men. The fragility of this veffel, which would have alarmed any other person, appeared to the Abbe as adding to the merit of the enterprize. Judging of its velocity by its lightness, he considered it as better calculated to gratify his impatience; and in this he was not deceived: for he arrived safe at the capital of New Spain, where he met with no delay. The Marquis de Croix, governor of Mexico, seconded his activity so well, that he reached St. Joseph nineteen days before

that marked out for the observation.

The village of St. Joseph, where the Abbe landed, was desolated by an infectious disorder, which had prevailed for some time, and destroyed a great many of the inhabitants. In vain did his friends, from a tender solicitude for his preservation, urge him to remove from the infection—in vain did they advise him not to expose himself imprudently, and to take his station at some distance towards Cape San-Lucar. His ardent and lively zeal for the progress of science, shut his ears against all the remonstrances of his friends, or rather of reason; and the only

danger he forefaw was, that of losing an opportunity of accomplishing the object of his wishes. He had the good fortune, however, to make his observations, in the completest manner, on the 3d of June; but becoming a victim to his resolution, he was three days after attacked by the distemper, which seemed hitherto to have respected him. Surrounded by his acquaintances, either fick, or dying, and destitute of that assistance which he had given them as long as health remained, the Abbe was struggling between life and death, when by his own imprudence he destroyed every ray of hope, and hastened that fatal period which deprived the world of this valuable member of fociety. The very day he had taken physic, he insisted upon observing an ecliple of the moon; but scarcely had he finished his observation, when his diforder grew confiderably worfe, and the remedies administered not being able to check its progress, he died on the 1st of August, 1769, in the forty second year of his age.

Had it not been for the care of a very respectable French academician, the fruits of this observation would have been entirely lost to the learned. The Abbe Chappe having at his death committed his papers to the care of Mr. Pauly, they were asterwards arranged and published by Mr. Cassini, the son, who at an age when others only assorted hopes of their future celebrity, had acquired the highest reputation. It was reserved for this gentleman to preserve, if we may say so, the existence of a philosopher whom his grandfather had formed; and if any thing could console the public for the loss occasioned by the Abbe being prevented from putting the last hand to his work, it certainly was the seeing it appear under the auspices of so able an editor.

The Abbe Chappe always beheld death with a firmness, and resolution, which can be inspired only by the testimony of a pure conscience. The evening before his departure from Paris, being at Supper with Count de Mercy, the Imperial Ambassador, feveral of his friends represented to him, that he ought not to undertake fuch a voyage, and offered to lay a confiderable wager that he would never return. "Were I certain," replied the Abbe "that I should die the next morning after I had made my observation, I would not helitate a moment, nor be in the least deterred from embarking." Four days indeed, before his death, he faid to those who were around him. "I must go.am fensible that I have only a few days to live—I have, however, accomplished my object, and I die contented." An heroic fentiment, which paints, in a few words, the character of this learned man, whose death was much lamented; and fully proves that the love of the sciences, as well as the love of one's country may produce a Decius.

## MFE OF JOHN FOTHERGILL, M. D. F. R. S.

(Concluded from page 352.)

AT his meals he was remarkably temperate; in the opinion of some rather too abstemious, eating sparingly, but with a good relish, and rarely exceeding two glasses of wine at dinner or supper; yet, by this uniform and steady temperance, he preferved his mind vigorous and active, and his constitution equal

to all his engagements.

Persons, whose stated employments preclude the enjoyment of leisure, naturally acquire a habit of brevity in the dispatch of their concerns. In conversation, they apply immediately to the subject of discussion; and, in writing, they compress much in a small space. In addition to this forceed dispatch, acquired by the urgency of important transactions. Dr. Fothergill possessed a remarkable quickness of perception, and, what is rather unusual, to vivacity of mind united solidity of judgment. Those who did not personally know him must have formed the same opinion of him, from the genius and sagacity which are displayed in his early publications. Some of these have been already mentioned, and we may add to them his Essays in the Gentleman's Magazine for 1751, and the three following year.

His pieces in the Aredical Inquiries, a publication begun in June, 1757, and afterwards continued, have been read by the Faculty, and always with approbation, as they contain facts that cannot be too generally known. If his language was not always correct, it was easy and fluent, and what in such composi-

tions is more valuable, it was accurately descriptive.

His epistolary correspondence was instructive and lively. As he was not confined there to the didactic solemnity of medical disquisitions, his language was more brilliant, but less correct; and, as in conversation, the same sentiments were conveyed in a liveliness of coloring, and frankness of expression, that, in any

to

m

he

lie

.

other point of view, might have afforded no emotion of pleasure, or proof of superior endowments. There was, indeed, a charm in his discourse and address, that affected some with a transport of admiration, and commanded the highest regard and opinion of those who employed him, whilst, by a discreet uniformity of conduct, he so fixed the capriciousness of mankind, that he was not apt to forseit the essem he had once acquired. His mind was of that happy versatility, that he could easily break off from more important concerns, and enter into familiar and pleasant conversation, with all the indifference of a man of leisure, and easily resume the variety of his serious engagements, as if they

had never been interrupted.

There is no character, however exalted, and no man however virtuous, but has some enemies; and the world in general are too ready to listen to the voice of scandal and defamation. "A life, thus fpent in the confcientious discharge of every duty," fays Dr. Fothergill's biographer, "and the uniform practice of every virtue, could not shield him from the mifrepresentations of envy, malevolence, and avarice, as the accufations of two perfons, at different periods of time, amply proved. Those who have been acquainted with Dr. Fother, ill, during the last ten or twelve years of his life, must know that I allude to the profecution commenced against him by one, for a supposed injury; and to the partiality of which he was accused by the other, in adjusting a difference between him and a respectable baronet. Of these transactions it is unnecessary here to enter into a minute detail. The decree pronounced on the former case, by that learned and ragacious judge, the Lord Chief Justice of England, most honorably justified his character from every imputation of and his own pen\* not only entirely vindicated him from every afpertion of partiality and injuffice, thrown upon him by his accuser, but also exhibited most exemplary instances of candor, liberality of fentiment, and generofity."

To those examples already given of Dr. Fothergill's benevolent liberality we mustadd the following, especially as such instances, however applauded, are very uncommon in the present day. The late Dr. Knight, librarian of the British Museum, whose character was deservedly esteemed, by some speculations in mining, rather plausible than productive, became so involved in his circumstances, as to be obliged to apply to those whom he

Introductory Remarks on the Preface of Parkinson's Journal of a Voyage.

deemed his friends for pecuniary support; but his applications were received with coolness. In this dilemma, the ingenious Knight, with great diffidence, made his case known to the Doctor, and told him what would once more render him a happy man. The answer given by the physician of philanthropy, whose heart never selt the distress of another, without wishing to relieve it, was flort but expressive—"I will then make thee bippys." We are assured, that the assistance given, upon this occasion, amounted to a thousand guineas.

n

f

8

i

## ACCOUNT OF DIOGENES.

#### FROM ANARCHARSIS' TRAVELS.

SAW a man arrive there, about five and forty, without shoes or tunic, with a long beard, a staff in his hand, a wallet over his shoulders, and a cloak, under which he held a live cock stripped of its feathers This he threw into the middle of the affembly, faying, "Behold the man of Plato," and inftantly disappeared. Plato finiled. His disciples murmured. Apollodorus faid to me: Plato had defined man to be a two-footed animal without feathers, and Diogenes has taken this method to ridicule the de. finition as inaccurate. I took this stranger, said I, for one of those importunate beggars to be met with in every opulent and polished nation. He does indeed beg fometimes, answered my companion, but not always from want. Offerving my furprife increase, Let us fit down faid he, under this plane tree; I will give you his history in a few words, and make you acquainted with some celebrated Athenians whom I see in the adjoining walks. We fat down facing a tower, named after Timon the misanthre-

<sup>\*</sup>The immense artificial loadstone, described in Dr. Fothergili's, works, was the invention of Dr. Knight, and presented by the former to the Royal Society.

pift, and a rifing ground, covered with verdure and houses, called Colonos.

About the time that Plato opened his school at the academy, refumed Apollodorus, Antifthenes, another disciple of Socrates established one likewise, on an eminence situated on the opposite fide of the city. This philosopher laboured, during his youth, to make an external display of the most rigid virtue; and So. crates, penetrating his intentions, one day faid to him, Antifthenes, I fee your vanity through the rents in your garment. His mafter had taught him that happiness consists in virtue; and he made virtue confift in a contempt of riches and enjoyments; and, to enforce his maxims, appeared in public, with a staff, and wallet over his shoulders, like one of those unhappy mendicants who expose their wretchedness to passengers. The fingularity of this fight procured him disciples, who remained attached to him for some time by his eloquence. But the austerities he preferibed made them gradually disappear, and, disgusted at this

defertion, he shut up his school.

Diegenes now made his appearance in this city. He had been banished from Sinope, his native country, with his father, accused of diminishing the coin. After a long refistance, Antisthenes imparted to him his principles, and Diogenes presently gave them a greater extent. Antifthenes fought to correct the passions, Diogenes to destroy them. The wife man, to become happy, should, according to him, render himself independent of fortune, of mankind, and of himfelf; of fortune, by braving alike her favours and caprices; of men, by divefling himself of prejudices, and despising customs, and even laws, when not conformable to his understanding; of himself, by labouring to fortify his body against the rigour of the seasons, and his mind against the allurements of pleasure. He sometimes says, " I am poor, a vag a ond, without country, without afylum, and compelled to live as I can from one day to another: but I oppose courage to fortune, pature to the laws, and reason to the passions." From thefe principles, which, in their respective consequences, may I ad man to the fummit of perfection, or plunge them into every fpccies of diforder, refults a contempt for riches, honours, glory, the distinction of ranks, the decorum of fociety, the arts and sciences, and all the comforts and embellishments of life. man, created in the imagination of Diogenes, and whom he fornetimes goes in fearch of with a lantern; that being, foreign to every furrounding object, and inaccessible to every thing that gratifies the fenfes, who ftyles himfelf a citizen of the world,

though he claims not that relation to his native land; that man would be as wretched as unprofitable in polithed focieties, and never did exist even prior to their origin. Diogenes imagines he can discover some faint resemblance of him among the Spartans: "I have found men no where," faid he, "but I have feen children at Lacedaemon.

cd

y,

63

te

h,

0.

ıl-

18

e

d

S

h

f

To represent in his own person the man of his idea, he has undergone the rudest trials, and emancipated himself from every species of constraint. You will see him struggling against hunger, appealing it with the groffest aliments, refuling to gratify it at entertainments, where the table is covered with abundance; firetching out his hand for alms to passengers; at night, shutting himself up in a tub; exposing his body to the injuries of the weather, under the portico of a temple; rolling himself in summer on the burning fand, and in winter walking, with naked feet, amid the fnow; fatisfying all the wants of nature in public, and in places frequented by the dregs of the people; courageoutly braving and supporting ridicule, infults and injustice; acting in . opposition to established customs, even in things the most indifferent; and daily exhibiting scenes which, whilst they excite the contempt of fensible men, reveal but too plainly to their eyes the fecret motives that influence his conduct. I one day faw him, during a fevere frost, embracing, half naked, a brazen statue. A Lacedaemonian asked him if he suffered pain. faid the philosopher. What merit is there then in what you do? replied the Lacedaemonian.

Diogenes possesses depth of understanding, firmness of inind,, and liveliness of character. He delivers his doctrines with such perspicuity, and explains them with so much energy, that strangers have been feen to liften to him, and instantly abandon all to follow him. Believing himfelf destined to reform mankind, he treats them without the smallest deference. His system leads, him to inveigh against vices and abuses, and his character unrelentingly to pursue those who are guilty of them. He never ceases to attack them with the weapons of satire, and an irony The freedom that reigns in a thousand times more formidable. his discourses renders him agreeable to the people. He is admitted into good company, which he ferves to enliven by ready repartees, sometimes happily hit off, and at all times frequent; for he hesitates at nothing. Young people court his company, to make trials of pleasanty, and avenge themselves of his supemority by infults, which he supports with the most mortifying;

I is

tranquility. I have often seen him reproach them with expressions and actions that put modesty to the blush, which inclines me to believe that he has never himself been guilty of those excesses his enemies impute to him. His indecency lies rather in the manner than in the thing being really offensive to good morals. Eminent talents, great virtues, and prodigious efforts, will never make more of him than a singular man; and I shall always subscribe to the judgment of Plato, who said of him, "He is Secretes in a phrenzy."

An account of the Indians of Porto de la Trinidad, in 41 N.

Lat. on the N. W. Coast of America, from the Spanish

Journal by Don Francisco Maurelle, of a Voyage in 1775,

to explore the Coast of America, Northward of California

translated by the Hon. Daines Barrington.

#### FROM BARRINGTONS' MISCELLANIES.

ON the 11th of June 1775, we had fixed every thing with regard to our anchorage, and we determined to take possession of the country, upon the top of a high mountain, which lyes at the entrance of the port. For this purpose our crews divided into different parties, which were properly posted, so that the rest might proceed without any danger of an attack. We moreover placed centinels at a considerable distance to reconnoitre the paths used by the Indians, who possessed themselves of those parts from which we had most to fear. With these precautions the crews marched in two bodies, who adored the holy cross upon disembarking, and when at the top of the mountain formed a square, the centre of which became a chapel. Here the holy cross was again raised, mass celebrated, with a sermon, and possession taken, with all the requisites enjoined by our instructions.

We also fired both our musquetry and cannon, which naturally made the Indians suppose we were irresistible. After they had recovered their fright however, and found that we had done them no harm, they vifited us again, and probably to examine more nearly what had occasioned the tremendous noise which they had never heard before. As we thus took poffession on the day when holy mother church celebrates the festival of the most holy Trinity, we named the port accordingly.

The following days were taken up in procuring wood and water, whilst the schooner was careened. We likewise cut some

masts for her.

We could not but particularly attend to all the actions of the Indians, their manner of living, habitations, garments, food, government, laws, language, and arms, as also their hunting and fisheries. The distrust indeed which we naturally entertained of these barbarians, made us endeavour to get as great an insight into all these as possible, yet we never observed any thing contrary to the most perfect friendship and confidence which they seemed to repose in us. I may add, that their intercourse with us was not

only kind, but affectionate.

Their houses were square, and built with large beams, the roofs being no higher than the furface of the ground, for the doors to which they make use of a circular hole, just large enough for their bodies to pass through. The floor of these huts are perfectly smooth and clean, with a square hole two feet deep in the centre, in which they make their fire, and round which they are continually warming themselves, on account of the great cold. Such habitations also secure them, when not employed out of doors, from the wind and noxious animals.

The men however do not wear any covering, except the cold is intense, when indeed they put on their shoulders the skins of fea wolves, otters, deer, or other animals; many of them also have round their heads sweet smelling herbs. They likewise wear their hair either dishevelled over their shoulders, or other-

wife en caftanna.

In the flaps of their ears they have rings like those at the end of a musquet.

They bind their loins and legs quite down to the ancles, very closely, with strips of hide or thread.

They paint their face, and greater part of their body, regularly. either with a black or blue colour.

Their arms are covered with circles of small points in the

fame manner that common people in Spain often paint ships and anchors.

The women cover the tops of their heads with an ornament like the creft of a helmet, and wear their hair in two treffes, in which they stick many sweet smelling herbs. They also use the same rings in their caps (which are of bone) as the men are before described to do, and cover their bodies with the same skins, besides which they more decently wear an apron of the same kind, about a foot wide, with some threads formed into a fringe. They likewise bind their legs in the same manner with the men.

The underlip of these women is swelled out into three fascias, or risings, two of which issue from the corners of the mouth to the lowest part of the beard, and the third from the highest point, and middle of that point to the lower, like the others, leaving between each a space of clear sless, which is much larger in the young than in the older women, whose faces are generally covered with punctures, so as to be totally dissigured.

On their necks they wear various fruits, instead of beads; fome of these ornaments also consist of the bones of animals, or shells from the sea coast.

This tribe of Indians is governed by a ruler, who directs where they shall go both to hunt and fish for what the community stands in need of. We also observed that one of these Indians always examined carefully the sea shore, when we went to our ships on the close of twilight, the occasion of which probably was to take care that all their people should return safe to their habitations about that time.

It should seem that the authority of this ruler is confined to a particular village of these habitations, together with such a district of country as may be supposed to belong to the inhabitants of such a community, who sometimes are at war with other villages, against whom they appeared to ask our assistance, making us signs for that purpose. There are however many other, willages which are friendly to each other, if not to these Indians; for on our first arrival more than 300 came down in different parties, with their women and children, who were not indeed permitted to enter the village of our Indians.

Whilst this fort of intercourse continued between us, we obferved an infant who could scarcely be a year old, shooting arrows from a bow proportioned to his size and strength, and who, hit one's hand at two or three yards distance, if it was held up for a mark.

We never observed that these Indians had any idols, or made facrifices: but as we found out that they had a plurality of wives, or women, at least, we inferred, with good reason, that they

were perfect atheifts.

e

8

a

Upon the death of one of these Indians, they raised a fort of funeral cry, and afterwards burned the body within the house of their ruler: but from this we could not pronounce they were idolators, because the cry of lamentation might proceed from affliction, and the body might have been burnt, that the corpse should not be exposed to wild beasts; or perhaps this might have been done to avoid the stench of the deceased, when putrefaction might commence.

We are not able to understand one of their regulations, as they permitted our people to enter all their houses, except that of their ruler; and yet when we had broken through this etiquette, we could not observe any thing different between the palace,

and the other huts.

It was impossible for us to understand their language, for which reason we had no intercourse but by signs, and therefore both parties often continued in a total ignorance of each other's meaning: we observed however that they pronounced our words with great ease.

Their arms are chiefly arrows pointed with flint, and some of them with copper or iron, which we understood were procured from the N. and one of these was thus marked C. These arrows are carried in quivers of wood or bone, and hang from their

wrift or neck.

But what they chiefly value is iron, and particularly knives or hoops of old barrels; they also readily barter for bugles, whilst they rejected both provisions or any article of dress. They pretended however that they sometimes approved the former, in order to procure our esteem; but soon after they had accepted any fort of meat, we observed that they set it aside, as of no value. At last indeed they took kindly to our biscuits, and really eat them.

Amongst these Indians there was one who had more familiar intercourse with us than all the rest, sitting down with us in sight

of his countrymen.

They used tobacco, which they smoaked in small wooden pipes, in form of a trumpet, and procured from little gardens where they had planted it.

They chiefly hunt deer, cibulos, fea wolves, and otters, nor did we observe that they pursued any others. The only birds we met with on this part of the coast were daws, hawks, very small paroquets ducks, and gulls; there were also some parrots with red feet, bills, and breasts, like lories both in their heads and flight.

The fifth on that coast are chiefly fardines, perjercy, and cod; of which they only bring home as much as will fatisfy the

wants of the day.

We tried to find if they had ever feen other strangers, or ships, than our own, but though we took great pains to inform ourselves on this head, we never could perfectly comprehend what they said; upon the whole we conceived that we were the only foreigners who had ever visited that part of the coast.

We likewife endeavoured to know from them whether they had any mines or precious stones, but in this we were likewife

disappointed.

What we faw of the country leaves us no doubt of its fertility, and that it is capable of producing all the plants of Europe. In most of the gullies of the hills there are rills of clear and cool water, the sides of which are covered with here (as in the meadows of Europe) of both agreeable verdure and smell. Amongst these were Castilian roses, smallage, lilies, plantain, thistles, camomile, and many others. We likewise found strawberries, rasperries, blackberries, sweet onions, and potatoes, all which grew in considerable abundance, and particularly near the rills. Amongst other plants we observed one which much resembled percely (though not in its smell), which the Indians bruised and eat, after mixing it with onions.

The hills were covered with very large, high, and strait pines, amongst which I observed some of 120 feet high, and 4 in dia-

meter towards the bottom.

All these pines are proper for masts and ship building.

The outline of the port is represented in Chart the 6th, which was drawn by D. Bruno Heceta. D. Juan Fr. de la Bodega, and myself. Though the port is there represented as open, yet it is to be understood that the harbour is well sheltered from the S. W. W. & N. W. as also from the N. N. E. and E.

This discovery was made by the schooner on the 19th of

June.

In the W. part there is a hill 50 fathoms high, joining to the continent on the N. fide, where there is another rifing of 20,

both of which afford protection not only from the winds, but the

attack of an enemy.

S

At the entrance of the port is a finall island of considerable height, without a fingle plant upon it; and on the fides of the coast are high rocks, which are very convenient for disembarking; goods also may be shipped so near the hill, that a ladder may be used from the land to the vessel; and near the land are many small rocks, which secure the ship at anchor from the S. E. and S. W.

We compleated our watering very early from the number of rills which emptied themselves into the harbour; we were likewise as soon supplied with wood.

We paid great attention to the tides, and found them to be

as regular as in Lurope.

We made repeated observations with regard to the latitude of this harbour, and found it was exactly 41 degrees and 7 minutes N. whilst we supposed the Longitude to be 19 degrees and

4 minutes W. of S. Blas.

We had thus thoroughly investigated every thing which relates to this harbour, except the course of a river which came from the S. W. and which appeared whilst we were at the top of the hill. We took therefore the boat on the 18th, and found that the mouth was wider than is necessary for the discharge of the water, which is lost in the fands on each side, so that we could not even enter it except at full tide. However we lest our boat, and proceeded a league into the country, whilst the river continued of the same width; viz. 20 feet, and about sive deep.

On the banks of this river were larger timber trees than we had before feen, and we conceived that in land floods the whole plain (which was more than a quarter of a league broad) must be frequently covered with water, as there were many places

where it continued to stagnate.

We gave this river the name of Pigeons, because at our first landing we saw large slocks of these, and other birds, some of

which had pleafing notes.

On the fides of the mountains we found the same plants and fruits, as in the more immediate neighbourhood of Trinity harbour.

# MEMOIRS ON SOME NEW FLEXIBLE AND E. LASTIC STONES.

li

0

Ii it fo

de

d

1 w

gi

to

14

fo

D

17

w

W

6

be

en

CO

fro

un

for

lar

fire

am

BY M. FLEURIAU DE BELLEVUE, OF THE ROYAL ACA.

DEMIES OF GENEVA AND ROCHELLE.

Read at the Society of Natural History at Geneva.

HAVE the honor to present to the society a slexible and elastic marble, which I found on Mount St. Gothard, in the month of July lasts and which appears to me to merit some attention, both on account of its singular property, and of the

geological circumstances which accompany it.

Hitherto we have heard only of two forts of stones which have been peculiarly denominate elastic, one calcareous, and the other quartzous; the first is a marble at the Borghese palace in stome, which belonged to an old building, and the origin of which is absolutely uncertain; the other a quartz, preserved in some cabinet, and which is faid to have come from Brasil, but the origin of which is very uncertain. These stones, which have both been esteemed very remarkable, have been sold at a very high price. Their texture, which is coarser than most other stexible minerals, may by that alone surnish us with some ideas respecting the cause of that singular property in them

The first species ceases now to be unique, since a pretty confiderable quantity has been found in a part of Switzerland. This marble is described—In colour white, with a little yellow. In masses irregular. Its surface is grained. It is shining both within and without; when broken, it is more compact than most marbles; it is softer than ordinary marble, and is partly elastic: this slexibility is very sensible, when the length is ten or twelve times more than its thickness; when one of its extremities is sixed, the other may be bent to form an arc of about three degrees from its ordinary direction; but this varies in different parts of the stone, it being greatest in the center layers, and may be augmented by shaking the stone repeatedly. The elasticity of this stone

is very remarkable. Its specific gravity is greater than that of most marbles; when struck in the dark, it yields a phosphoric red light. It resists the fire more than pure lime stone; when put on a hot iron, it produces a phosphoric light of a reddish white, sively, and which remains some time. Water penetrates into it with great facility: in a few seconds it will be moissened for some lines; it then becomes more brittle and friable, but without augmenting its slexibility: but put in water heated to 70 degrees, for three quarters of an hour, it absorbs two hundredth parts of its weight. This stone much resembles the marble of Tirol, found by the younger M. de Saussure, and called by him dolomies.

In acids it causes but little effervescence, and dissolves but slowly, for which it requires seven hours in nitrous acid: it will not entirely dissolve, but leaves some remains.

I have not analysed this marble, but the presence of mica, of seatites, and other circumstances, induce me to believe that arigile and magnesia enter into its composition.

It appears to ne, that this marble must necessarily be of the same species with that in the palace Borghese: this latter resembles the marble of Tarara; it is very brittle, easily reduced to powder, and seems to have a grain somewhat round, and lastly, it contains a mica; all which characters are found in the former. It resembles also a marble called retulio, which M. Dolomieu mentions in the Journal de Phisique for November 1791, of which he says, it was of so dry a nature, that statues made of it broke of themselves in a few years, in those parts which had no support; thus it is with our marble, in those strata which are exposed to the air.

I agree with M. Dolomieu in his opinion respecting the marble in the palace Borghese, who says, that it owen its faculty of bending to that state of dryness, which has weakened the adherence of its particles; and I think that the form of the particles contributes partly to this effect.

I found this marble in the Val Levantine, seven hours journey from the hospital of St. Gothard, in the country of Campo Longo, on the confines of the Val Maggio. It does not begin to appear until we are about the height of one thousand toises: there it forms a part of an immense bed of trimoleth, which is irregular. These two rocks are so intermixed in this bank, that at first view we see no difference, but that one is mixed with cristals, and the other is not.

Vel. IV.

t.

e

h

nd

e

in

ut

at

fk

10

d.

W.

th

ıft

113

es

m

he

n-

#### LETTER

FROM MR. DE LUC, ON GRAVITY.

R. DE LUC, begins with observing, that, although terrestrial may be distinguished from general physics to a certain point, confidering the latter as furnishing the former with a small number of laws, attested by constant experience, and admitted by all philosophers, such is the concatenation of causes in nature, that they cannot be distinguished with marked precision, and we know not where to place the boundary to prevent physical theories from losing more or less of their certainty, copiousness, nay and of their evidence, though at bottom they are true. laws of gravity and cohesion are sufficiently established to be admitted in terrestrial physics in their common signification, without occasioning doubts, and even without risk of error, if Arically observed. Chemical affinities, considered as general phenomena, also appear to require only a particular determination of their laws in detail, as fuccessively furnished by experience; though these laws are already so complex, that it would be useful for us to be enlightened by their causes, to prevent our falling into mistake. When, however, we come to expansible fluids, their modifications, and the different actions they exert, phenomena which must be intimately connected with general causes in nature, we are aftonished not yet to find a precise definition of these suids, or determination of their general laws, established as a common code amongst philosophers. This, affecting precisely that class of substances about which philosophers are at present chiefly engaged, is one principal cause of their disagreement, and a grand obstacle to the progress of true knowledge. At the time when air and fire were confidered as elements, and elafficity like that of a fpring was attributed to them, the science of terrefrial physics was so vague and confined, that this idea of elaflicity was on a par with most other common opinions concerning nature: and philosophers employed the expression, till a more intimate acquaintance with facts should give them ideas more

clear. Experience and observation have since that period made as much progress as might have been expected; but natural philosophy, that science of which it is the province to account for the phenomena of nature, has not advanced with equal step. At present expansible fluids occupy the attention of all, yet the vague idea of elasticity is retained as a character of their class, whence many phenomena that proceed immediately from the nature of these shuids are assigned to other causes, which throws in the way of our researches much obscurity. A precise definition of the nature of expansible shuids is one of the objects which ought at present most strongly to engage the attention of philosophers, as a mean of preserving them from mistake concerning causes

whilft they advance in this discovery of facts.

er-

in

all

ed

re,

we

00

27

he

be

on.

if

ie-

on

e;

fe-

al-

ds,

he-

les

on

ned

ely

ent

und

me

ity

er-

la-

ing

ore

ore

From this, after calling to the remembrance of the reader his Refearches concerning the Modifications of the Atmosphere, introductory to his mentioning Mr. le Sage, as a philosopher to whom he was indebted for his ideas concerning the caute of gravity, Mr. de Luc proceeds to devolve the fystem of that gentleman: a fystem on which Mr. le Sage has employed his attention near fifty years, but which, embracing a vall field of experiment and calculation, his health has not yet permitted him to lay before the public, defirous as he was, that it should not appear till he could establish it on immoveable foundations. At an early age, Mr. le Sage was struck with the consideration, that, wherever the causes of motion or of tendency to motion are immediately known to us, we perceive actual impulse. From this foundation he has constructed his theory. His fundamental hypothesis is - "Corpuscles excessively small move in a right line, in every direction, with extreme rapidity." The rest of his lystem consists only in geometrical determinations. He determines, for inflance, the magnitude of these corpuscles, comparatively with the fmallest pores of bodies; their velocity, compared with that of light for example; the distance of those which succeed in the same lines, compared with the diameter of the earth; the distance of their parallel files, compared with the magnitude of the atoms that compose sensible substances: and all thefe determinations are deduced from phenomena. Proceeding, by analysis and analogy, from phenomena in which the agents are belt known to phenomena of the fame kind the agents in which recede farther and farther from our observation, Mr. le Sage has extended the idea of mechanical causes to the most general phenomena: and thus he has reduced all the science of natural philosophy, to that fole truly simple and intelligible

principle of mechanics, the inertia of impenetrable extension (etendue.)

I come now, fays Mr. de Luc, to fuch part of this fystem as I can exhibit with the least difficulty, in order to bring it to that point where it connects with my own researches in experimental

philosophy.

The corpufcles above mentioned moving all ways, it is evident, that every fenfible point of that portion of space which we call the universe is traversed in every direction, at every sensible inflant of time; fo that these points may be considered as centers, at which corpufcles arrive from all fides, as particles of light arrive at them from all the stars. Now in the fystem of Mr. le Sage, these corpuscles in motion produce, mediately or immediately, all the physical phenomena of the universe. To begin with the greatest immediate effect of this mechanical cause, gravity, let us suppose, that, beside these corpuscles, there exist in all space but one sole atom belonging to sensible substances. This atom, occupying one of those fensible points, at which corpuscles arrive from every side, will be struck by them on every part, and of course will remain sensibly immoveable. Now if a second atom should come afterwards to exist at a sensible proximity to the other, it is evident, that each of these will protect the other from the shocks of those corpuscles which strike it on the outer furface. The atoms, therefore, will receive fewer shocks on the furfaces they present to each other, and consequently they will be impelled toward each other by the fum of the exterior shocks which are not compensated by interior ones, Thus already the idea of attraction vanishes before an idea simply mechanical. It has been discovered, that the velocity with which bodies move toward each other increases in an inverse ratio of the iguares of their distances; and this law will be found perfectly conformable to the proportion of corpufcles intercepted at different distances in the fystem of Mr. le Sage. The fecond law of gravity, that bodies attract each other in the ratio of their mass, appears at first fight incompatible with the fyshem of Mr. le Sage: but on a closer examination it will be found otherwise. If a second atom be placed by the side of one of the former, the fingle one will keep off from this as many corpufcles as it did from the other; whence they will both move towards it with the same force as the first atomdid. But this atom will keep off as many corpufcles from the fingle one as its fellow does; whence the fingle atom will move, in a line intermediated to one drawn from its center to the center

on

5 I

iat

tal

all

n.

5,

rle

i-

4

5.

r-

y

t

t

of each, with double the force it had before. This force will! incontestibly be increased exactly in proportion to the number of atoms placed fide by fide. It will feem a fpecious objection, no doubt, that in any given mass many of its component atoms will be in one line, and confequently on this fystem can act but as one. Yet this objection will vanish, if we allow the porosity of bodies to be fuch, as Mr. le Sage has demonstrated it may be, that in a globe as large as the fun the atoms placed about its center are struck by these corpuscles sensibly as much as those on its surface; so that the quantity of corpuscles stopped in these vast bodies (whence their gravitation towards each; other arises) may bear so small a proportion to that of the corpuscles which traverse it, that the same quantity arrives sensibly to each of its component atoms, wherever fituated; and; thus gravity may be so nearly in the ratio of masses, that astronomy has not yet been able to discover a want of accuracy certainly attributable to a defect of this law. This part of the fiftem of Mr. le Sage supposes, it is true, degrees of littleness. and velocity of the corpufcles and of the porofity of bodies, with fuch an extent of space, as startle the imagination : but our ideas of magnitude, of velocity, and of time, have nothing abfolute; and as to space, far from being able to affign its limite. we conceive the whole universe, as far as we have any knowledge. of it, however immense it appear to our imagination, is but a fingle point in it.

AN ACCOUNT OF A JOURNEY TO THE TOP. OF

the base resemble to be seened

and the section of the contract of the contrac

ware if the fire head dressed, a lost private

The Contract of the state of the second

Br MR. DE SAUSSURE.

PHILOSOPHERS and naturalists who propose to visit thee tops of high mountains, generally take their measures in such a 1 K k 2.

manner as to arrive there about the middle of the day, and when they have reached the intended spot, are in too great haste to make their observations, that they may be able to descend before night. Hence it happens that they always visit great eminences almost about the same hours, and on that account cannot form a just idea of the state of the atmosphere at other times of the day, and especially during the night.

It appeared to me, therefore, a matter of importance to supply this desciency in our atmospherical knowledge, by remaining long enough upon some great eminence to determine the daily variation of meteorological instruments; the barometer, thermometer, hygrometer, electrometer, &c. and to wait for proper opportunities of observing the origin of different meteors, such as rain, wind and storms.

This defire was encreased by that of attempting various experiments, which I had resolved to make upon Mount Plane; but want of time, and the uneasiness I selt from the rarity of the air, prevented me from accomplishing this part of my

defign.

The difficulty was to find a convenient fituation. I was defirous that it might have eighteen hundred toifes of elevation, and that it might be open on all fides, in order that the wind, and all other meteors might act in full liberty. I might eafly have found fome fummit covered with fnow in which all these properties would have been united; but it would not have been practicable to raise a durable place of shelter upon the snow, and to make proper observations, both on account of the instability of the instruments, and of the cold and moistness of the at-

mosphere.

It was very difficult to find upon the Alps, at fo great a height, a rock free from fnow, accessible at the same time, and large enough to contain a kind of habitation. Mr. Exchaquer, whom I consulted upon this design, told me, that upon the route newly discovered, which conducts from Chamouni to Courmayeur, in passing the Tacul, I would find rocks such as I wished for. Trusting to his information, I began, last spring, to make preparation for this expedition; and in the beginning of June I went with my son to Chamouni, to wait for sine weather, and to take advantage of the moment when it should appear. I carried with me two small tents; but I was desirous to have besides these a small hut constructed of stone. Several separate places of shelter were requisite, not only for ourselves and our guides, but because it was necessary to keep the mag-

netometer and the variation compais apart one from the other, that they might not reciprocally influence each other's variations. I therefore fent people before to erect a hut of that kind, and when it was finished, and the weather appeared to be settled and fine, we departed from Chamouni. The first night, July the 2d, we flept under our tents at Tacul, which is a plain covered with tuif, upon the brink of a small lake, contained between the extremity of the glacier, called the glacier des bois, and the bottom of a rock, known by the name of the mountain. of Tacul. Next morning we departed thence, at half after five, and arrived at our but about half an hour after twelve. To this place I gave the name of the Giant's Neck, because. it is really at the entrance of the neck that one begins to defeend towards Courmayeur, and because the most remarkable mountain in the neighbourhood, and that which hangs over this neck, is called the Giant, a high and steep summit which can be diffinguished very plainly from the banks of our lake\*.

In going from Tacul towards the Giant's Neck, we could not pass by the glacier of Trelaporte, which our guides had croffed the year before. As the clefts of this glacier were quite open and free from fnow, fo as to render it entirely inaccessible, we were under the necessity of pursuing our routeby the foot of a lofty fummit, called la Noire, passing along the edges of very steep sheets of snow, on the borders of which were many deep fiffures. Our guides affured us, that this paffage is much more dangerous than that by which they had gone the year before; I however, trust very little to affertions of this kind, because the present danger always appears greater than that which is past, and because these people think to flatter strangers, by telling them that they have escaped great It is however, certain, that this passage of la Noire is very dangerous, and as it froze during the night, it would have been impossible to pass hard steep sheets of snow, had not our people gone and marked out a path the evening before, while the fnow was foftened by the heat of the fun.

We were exposed afterwards, as at Mount Blanc, to the danger of fistures concealed by a very thin covering of fnow; these fistures became smaller and less frequent towards the top of the mountain, and we were flattering ourselves with the hopes of getting clear of them, when all of a sudden we heard some one cry out, ropes, ropes. These were indeed wanted

The lake of Geneva.

of the people who carried our baggage, and who being about an hundred paces before us, had suddenly disappeared from amidst his companions, having fallen into a large sissure about fixty feet deep. Very luckily he was stopped about half way down, that is to say, at the depth of thirty feet, by a large mass of snow which stuck in the sissure. As he fell upon the snow, he received no injury, but a few scratches in the sace. His best friend, P. J. Favret, immediately made himself sast to a rope, by which he was let down, and having first fent up the load, the two men were drawn up afterwards. Balmar, when he got out, appeared to be a little pale, but he shewed no signs of emotion; he took upon his shoulder our matrasses, which composed his load, and pursued his way, as if nothing had

happened.

The moment of our arrival at the end of our journey was not as is usually the case, a moment of satisfaction. I soon saw, and not without forme degree of chagrin, on comparing the fituation of our hut, with other eminences which I knew, that its elevation was not eighteen hundred toiles, as I expected, I found it also to be too finall, it was only fix feet square; it was fo low that one could fcarcely stand upright in it, and the stones of which it was constructed, were so badly joined that: the fnow found a passage between them, and had even half fil-The ridge of rocks upon which we were to erect out tents, and upon the angular point of which flood our hut, was: enclosed by two glaciers extremely narrow and unequal, and bordered upon every fide with fleep sheets of snow, which one might almost call precipices. For a habitation of several days, this fituation prefented nothing agreeable; but the prospect from it was truly magnificent. Towards Italy, we had an immense extent of horizon, composed of several chains of mour ... tains, partly covered with fnow, between which, however, we discovered some forests and cultivated valleys. Towards San voy, Mount Blanc, the Giant, and the intermediate fummits exhibited a most noble view, equally variegated and interefting.

The people who had carried our baggage and inftruments, fet out immediately to return to Chamouni; but I kept, befides my own fervant, four of the best guides to assist us in our operations, and to go alternately to fetch coals and provisions.

from Courmayeur.

one

out

rom

out

way

rge.

the

cc.

fast

up

ar,

ed

es,

ad

28

w,

si.

at

d,

it

16

it:

l- .

r.

S.

3

After they had reposed and refreshed themselves I desired them to begin, and make the arrangements necessary for my settlement; but some remains of their fatigue, and a dread of the inconveniencies which they were likely to endure in such an abode, greatly weakened their strength and damped their courage; however, towards evening, when they began to feel the cold, they were sensible that it was time for them to think of providing a place of shelter against night; they began therefore to arrange the large loose blocks of granite detached from the rock upon which we had taken up our abode, and to erect tents; for the hut was uninhabitable, until they had cut with pick-axes, and carried away a sheet of ice, which they found below the snow, with which it was half filled.

As for myself, I first began to inspect my instruments, and to make experiments with those which required no preparation; but I was much disappointed to find my two barometers deranged; the drought which had prevailed after our departure from Chamouni, had diminished the diameter of the cork which kept in the mercury, so that it ran out very fast from both; but as the air had not got in, I repaired one of them, by employing a remedy pointed out by the cause of the evil. I kept it continually wrapt up in wet cloths, and the moisture having made

Though our accommodation was extremely bad, we flept very foundly, which reftored us to our full vigor and activity. In the morning we began with great spirit to free our hut from ice, and to raise it so that we could stand upright in it. We constructed two pedestals for the magnetometers the variation compass, and the board upon which we intended to trace out a meridian line, and began to make some observations. Our guides, who foresaw a change of weather, exerted themselves with much assiduity to six our tents properly, which was a very difficult operation, upon a projecting rock, narrower than our tents, being besides unequal in breadth, and composed of large incoherent masses.

It was extremely fortunate for us that we took all these precautions, for in the night following that between the fourth and the fifth of July, we were attacked by one of the most surrous storms that I ever remember to have seen. About one in the morning, the wind sprung up from the south-west and blew with so much violence, that I every moment expected it would have carried away the stone hut, in which I and my son lay. In this wind there was something singular; it was pe-

riodically interrupted by intervals perfectly calm, during which we heard it bellowing below us, in the bottom of the valley called l'Allee Blanche, whilft there was not the least breath of air around our hut. Those calms, however, were followed by fudden gufts, the violence of which was inexpressible; they refembled repeated discharges of artillery, and we even telt the mountain shake under our mattrass. The wind easily found a passage between the joinings of the stones; it once raised up the clothes which covered me, and made me imagine that I was froze from head to foot. About the break of day, it became a little calm; but it foon refumed its former violence, accompanied with fnow, which made its way into every part of our We then took shelter in one of our tents, which defended us better. We found there that our guides were obliged to hold the poles continually, left the force of the wind fould overturn them, and fweep them away together with the tent. About seven in the morning the storm was accompanied also with hail and claps of thunder, which fucceeded almost without interruption, one of which was fo near us, that we diffinally heard an electric fpark, which with a fnapping noise glided along the wet canvas that covered our tent exactly behind the place where my fon lay. The air was fo filled with electricity, that as foon as I had placed without the tent, the point only of the conductor of my electrometer, the balls diverged as much as the threads would permit them, and almost at every clap of thunder, the electricity, from being politive, became negative, or from being negative, positive. To convey a proper idea of the violence of the wind, it will be necessary only to observe, that our guides being twice defirous of fetching some provisions from the other tent, chose for that purpose those intervals when the wind feemed to be a little abated; but about half way, though the distance from the one tent to the other was not above fixteen or seventeen paces, they were attacked by such a furious gust, that to fave themselves from being carried over the precipice, they were obliged to cling to a rock which was luckily in their way, where they remained two or three minutes with their clothes blown over their heads, and exposed to a dreadful shower of hail, before they could venture to quit their hold.

About noon the sky became clear, and Mr. Exchaquer, who the evening before had come with four guides to pay us a visit, and who had shared with us the severity of the night and of the

form in the morning, embraced that opportunity of favourable

weather to return to Courmayeur.

As, for us we were very well fatisfied to find that with our wretched shelter we had been able to resist the elements united, and being sirmly persuaded that it was almost impossible we should meet with worse weather, we found ourselves quite secure against the fear of those storms, which had been represented to us as very dangerous upon such eminences. We continued, therefore, with great ardor to make every disposition necessary for observations; and we began next morning a regular and uninterrupted series. When the weather was not too bad, my son arose at four in the morning to commence his meteorological observations. I did not get up till seven; but to make amends, I watched till midnight, while my son went to bed at ten. In the day time each of us had his set-

tled occupations.

ich ley

ath

red

ey

he

he

as

2

n.

ur

to

it

7

This active manner of life made the time pass with the greatest rapidity; but we suffered much from the cold during bad weather, and in the greater part of the evenings, even when the days had been fine. Every evening, almost, about five o'clock a wind arose which blew from declivities covered with snow that hung over us to the north and east. This wind, often accompanied with fnow or hail, was prodigiously cold, and incommoded us much. The warmest clothes, even furs, could not secure us from it. We could not light a fire in our small tents, and our wretched but, the apertures of which admitted the light, could not be made warm by the fire of our small stoves; the air was so much rarified that the coals burnt but very feebly, even when we used a pair of bellows, and if we at length were able to warm our feet and the lower part of our legs, our bodies always remained cold on account of the wind which penetrated our habitation. During thele moments we less regretted that we were at the elevation of 1763 toiles above the level of the fea; for higher the cold would have been much more severe: besides we comforted ourselves when we reslected that we were 180 toiles higher than the summit of Buet, which was reclone I some years ago the highest accessible part of the Alps.

About ten in the evening, when the wind became calm, having suffered my son to go to sleep in the hut, I repaired to the tent where my compass was, and having wrapt myself up in my furs, and put a warm stone under my feet, I began to write out a fair copy of the observations which I had made in

the course of my journey. I occasionally went out to observe my instruments and the state of the heavens, which appeared then for the most part perfectly pure and serene. After these two hour's retirement and contemplation, which were exceedingly pleasant, I went to rest in the hut upon a small mattrass, spread out on the ground near that of my son, where I enjoyed a much sounder sleep than ever I did in my own bed when at home.

The fixth and last evening which we passed upon the Giant's Neck was most delightful and charming. It appeared as if these losty summits wished that we should quit them with regret. The sharp wind which had rendered the greater part of the evenings so cold, did not then blow; the summits which hung over us, and the show which lay between them were tinged with the most beautiful shades of rose-color and crimson; the whole horizon of Italy seemed to be edged with a broad purple border, while the full moon, rising majestically above this border, and appearing of a deep red color, still added to the grandeur of this magnificent scene. The atmosphere which surrounded us, had the same purity and perfect serenity, as Homer assigns to that of Olympus; but the valleys, filled with vapors which had been there condensed, appeared to be the abode

of obscurity and darkness.

But how shall I describe the night which succeeded that beautiful evening, when, after the twilight, the brilliant moon from the heavens d'fused floods of filver light over the vast circumference of fnow and rocks which furrounded our small habitation? What an aftonishing and delightful spectacle did the sheets of snow and ice, the splendor of which is insupportable when the fun fhines, exhibit, by reflecting the mild rays of the lamp of night! What a magnificent contrast did the dusky rocks of grante, cut out by the hand of nature with fo much boldness, form in the midst of the brilliant snow! What opportunity for meditation! For how many pains and privations do not fuch moments indemnify us! The foul is elevated, the mind feems to be enlarged, and amidst that majestic silence we think we kear the voice of nature, and that we are admitted to behold her most fecret operations. The next morning July the 16th, as we had finished our intended experiments and observations, we quitted our station, and descended to Courmayeur. The first part of the descent, which is over incoherent rocks, is very steep and laborious, but attended with no danger, and in this respect it has no kind of resemblance to that of l'Aiguille-

du Goute, to which it has been compared. At the bottom of thefe rocks you enter fome meadows, and below thefe you find woods, and afterwards cultivated fields, through which you arrive at a Courmayeur. In all this route there is no difficulty. We, however, fuffered much there on account of the heat, which to us, who had come from a cold climate, to which we had been for some days habituated, appeared to be insupportable; but we fuffered more from hunger, as our stock of provifions which we had referved for this finall journey, disappeared during the night. We strongly suspected that some of our guides had made free with them, not fo much for their value, but that we might be fooner induced to return. They were much tired with remaining upon the Giant's Neck; and our admiration of the last evening, no withstanding the impatience of my fon, made them fear that we withed to prolong our stay. heat and want of fustenance had deprived me of my strength, threatened to bring on fainting, and affected my head fo much that I could not find words fufficient to express my thoughts. My fon and my domestic suffered also, but in a much less degree. Though my weakness retarded our progress, and by these means kept me at a distance from relief, we at length arrived about feven in the evening at the village of Entreve, where we found the first houses in which we could get any thing to eat. After a day's repose at Courmayeur, which perfectly reestablished me, we again set out, and passing through Col-Ferret to Martigny, and thence to Chamouni, where we flaid three days to make fome experiments, and compare them with those made upon the Giant's Neck, we returned to Geneva at the end of July.

SOME ACCOUNT OF THE GRISGRIS AND MUMBO JUMBO, SUPERSTITIONS PRACTISED IN MANY OF THE INTERIOR COUNTRIES OF AFRICA.

OF all the superstitions in vogue in several of the interior countries of Afr ca, the most general and remarkable are the Vol. IV.

Grifgris and Mumbo Jumbo; the former of which, Le Maire fays, are certain Arabic characters, mixed with necromantic figures, drawn by the Marbets, (the priefts fo called) on paper. I abat affirms, that they are nothing more than scraps of the Koran in Arabic; but this Parbot denies, and confirms his opinion by positive proofs; for having brought over to Europe one of these Grisgris, and shewn it to a number of persons deeply skilled in the Oriental learning, none of them could find the least trace of any character they understood; yet, after all, this might be owing to the badness of the hand writing, and the words are probably of the Mandingo language, though the characters are an attempt to imitate the Arabic. The poorest negro never goes to war without his Grifgis, as a charm against wounds; and, if it proves ineffectual, the Marbut transfers the blame on the immorality of his conduct. Those cheats invent Grifgris against all kinds of dangers, and in favour of all defires and appetites; by virtue of which, the possessors may obtain or avoid whatever they like or diflike. They defend them from florms, enemies, diseases, pains, and misfortunes; and preserve health, long life, wealth, honour, and merit, if we credit the Marbuts. Certain it is, that those priests find all the benefit of the boafted virtues of their Grifgris: no clergy in the globe being more revered, honoured, or wealthy, according to the ideas of wealth they entertain here; and no wonder, as they impoverish the people by the exorbitant price they exact for their knavish charms, a Grifgris being frequently valued at three flaves, and four or five oxen.

Such of these pious ornaments as are intended for the head, are made in the form of a cross, reaching from the forehead to the neck behind, and from ear to ear; nor are the arms and shoulders neglected. Sometimes they are planted in their bonnets in the form of horns, at other times they are made like ferpents, lizards, or fome other animal, cut out of a kind of paste board: In a word, they are of forms as various as the purpofes for which they are intended. There are not wanting Europeans, and otherwise intelligent seamen and merchants, who are in some degree infected with this weakness of the country, and believe that the negro forcerers have an actual communication with the devil, and that they are filled by the malignant influence of the evil spirit, when they see them distort their features and muscles, make horrid grimaces, and at last imitate all the appearance of epileptics: A notion not confined to the negroes of Africa, but thoroughly believed, about the beginning of

the last century, by several of the learned of Europe, and borrowed by them from the antients, who believed that persons afflicted with this terrible malady were possessed with a quid divinum, or spirit. Here, indeed, it is counterseited, but so artfully, that it is next to impossible to detect them, and hence

they gain great credit with the natives.

To these charms and necromantic arts they add theether bug-bear of Mumbo Jumbo, which is intended, chiefly among the Mandingoes, to keep their women in obedience and fubmiffion. This is no other than a large idol, which the women are fimple enough to believe, or cunning enough to pretend, they take for a human favage, who watches all their actions, and can even penetrate into their most fecret thoughts. The husband gets behind this statue in the night, and makes a dreadful bellowing, which they suppose issues from the idol; and of this fome of them make a very artful use; for, persuading their husbands that they firmly believe in the attributes given to the Mumbo Jumbo, their conduct is intirely committed to his care; the husband takes his pleasure abroad, and the women enjoy the fociety of their gallants, free from all alarms and difcove. Some of them, are, however, fimple enough to credit what their husbands affert, and then they try to bribe over the idol to favour them. Moore relates, that this part is acted by a negro, and commonly by the favourite flave of his mafter; hence he acquires an absolute dominion in the family over the women, in confequence of his function; and over the master, from an apprehension that ill usage will make him reveal the fecret of fo much confequence to the fupport of the hulband's authority, and prefervation of the women's honour.

In the year 1727, the King of Jagra had a woman, whose curiosity could only be equalled by his weak fondness, in discovering to her the whole mystery of the Mumbo Jumbo, for which she had long eagerly follicited; but, with the indiscretion usual in her fex, she was scarcely in possession, when she hastened to reveal it to all the other women. The report soon came to the ears of the chief negro Lords, who were before but ill affected to the King's person, and now shocked with a weakness of such consequence to them all: They therefore assembled to deliberate on the necessary measures, in an affair so critical; and not doubting but their women would throw off their allegiance, and live in a perpetual state of rebellion and insidelity, if the terror of the Mumbo Jumbo was once removed, they determined upon a very bold step, which they executed with equal resolu-

tion. They affumed that air of authority peculiar to perfors who take upon them a religious office, or act in a religious cause; and, going to the palace, ordered the King to come before the idol or Mumbo Jumbo. The weak Prince, not daring to refuse the summons, obeyed, and, after being severely censured by the bug bear, he was ordered to produce all his women. No sooner had they made their appearance, than they were instantly affassinated by order of the Mumbo Jumbo, and thus this almost fatal discovery was suppressed, before it made its way out of the King's family.

Such as are initiated in the mystery of the Mumbo Jumbo take a solemn oath not to reveal it to the women, or any other negroes who are not of the society. They cannot be admitted before a certain age; the people swear by that idol, and no oath

is observed with more solemnity and respect.

#### A SHORT

#### HISTORY OF AGRICULTURE.

AGRICULTURE is one of the most ancient as well as the most useful of all the arts; and it appears that it owes its origin to mankind uniting together in society. The first inhabitants of the globe were probably not acquainted with any other method of nonrishing themselves than with the fruits which they collected at the roots of trees. As they increased in number, they found it necessary to have recourse to aliments of some other-kind. Those who frequented the borders of the sea, lakes, and rivers, applied themselves to sishing, and those who resided in the neighbourhood of forests, employed their time in hunting animals, the slesh of which supplied them with food. But when societies were formed, they thought of procuring a subsistence more certain, and of a more agreeable nature. They tore up, therefore,

in the forests, the trees, the fruits of which had been found most palatable, and cultivated them around their habitations. The vine was propagated, and the earth received in its bosomethe seeds of such plants as had been remarked to be distinguished by their nutritive qualities. Observation, industry, and necessity, ever ingenious, contributed to bring their first attempts to perfection, and thus agriculture soon became an art.

According to the Scriptures, mankind in the earliest ages of the world gave themselves up to agriculture. The case was the same after the flood, and the cultivation of the earth was the sole employment of the patriarchs. Enured to labor, and strengthened by the continual exercise of temperance and sobriety, they were subject to sew infirmities; the source and cause of which is too often to be found in idleness and luxury. The earth, cultivated by their care, and that of their children, produced abundant crops, and their flocks and herds encreasing, covered the fertile plains.

It is well known, that the inhabitants of Mesopotamia and Palestine applied themselves to the cultivation of the earth in the most remote periods. Ozias, king of Judah, had a great number of labourers and vintagers upon the mountains of Carmel.

The Assyrians, the Medes, and the Persians, followed agriculture also. According to Berosus, it was so ancient, that it might be traced back to the first ages of their history. The Egyptians, who pretended to have a divine origin, gave Isis the honor of discovering corn, and they ascribed to Osiris the invention of the plough, and of the cultivation of the vine. It cannot be denied, that agriculture was very ancient in Egypt, since, according to sacred history, Abraham retired thither during the time of a famine, and Jacob, on the like occasion, sent his sons to the same place to purchase corn in that country. Agriculture was always held in great honor.

As there is no people on earth who carried industry, labor and ingenuity, farther than the Egyptians, there are none who were better acquainted with the sources of happiness and prosperity. They knew that agriculture was the sirmest support of a state, and the essential means to preserve the immense population of their dynasties, so that this art amongst them formed a particular object of their polity, and of the attention of government. It cannot be doubted, that the great love which the Egyptians had for the sciences, and above all for agriculture, gave rise to

L.1. 2.

th

ge

CU

CO

G

fti

Ca

OT

th

di

-81

C

.(

learned works on this subject. It is probable, that there were a great number of treatises respecting agriculture in the libraries of Memphis and Alexandria, but those libraries were unfortu-

nately destroyed.

The Greeks, imitating the Egyptians, who made gods of every thing that excited their aftonishment, thought Ceres to be the goddess of corn; but, according to Polydore Virgil, the Greeks claimed the invention of many things which they had been taught by the Egyptians. It will be fufficient to recur to the first ages of their history, to be convinced that agriculture was not even known in Greece, when it had made confiderable progrefa among the Phoenicians, the Midianites, and the Egyptians. After having travelled through Egypt, the Greeks introduced into their country the use of the plough. Their taste for agriculture encreasing all their political views were directed towards that branch of pub-Ic economy; and the Grecian philosophers, renowned for the wisdom of their legislation, made regulations respecting this object, which is fo effential to the prosperity of an empire. Athens. and Lacedemon became in a little time two flourishing cities, and it was to the art of tilling the earth, that they were indebted for their elevation.

Arilleus of Athens, was the first person who cultivated the olive, and invented a method of extracting oil from it. To the Athenians, we are indebted for the fig tree: the same people brought at different times quince trees from the island of Crete, chefinut trees from Sardis, peach and walnut trees from Persia, and lemon trees from Media. All these foreign productions, and many others, have, by means of the Greeks, been transmitted to us. The Romans, having conquered Greece, transported to Italy all the trees which they found there. refer to that period the introduction of olives at Rome; fince, according to Feneftella, none of them had been feen either in Italy, Spain, or even Africa, under the reign of Tarquin. It is much to be doubted, whether the almond tree was known in Italy in the time of Cato, and if it was not carried thither after the conquest of Greece. It is certain, that the cherry tree was unknown there in the year 680, after the building of the city, and that Lucullus brought it from Pontus after the defeat of Mirthridates. The first pistachio trees were brought from Syria by L. Vitellius, under the reign of Tiberius.

In those happy times, when the Greeks thought of nothing but cultivating their fields, and causing agriculture to flourish.

they became formidable and powerful. Their enemies no longer dared to attack them; but this glory was only of short duration. The ornamental arts soon assumed the place of agriculture, so much that the magistrates were obliged to transport torn from foreign countries. This decline hastened the ruin of Greece.

The Romans honoured agriculture in a fingular manner. Romulus, Numa, and Ancus Martius, recommended nothing foflrongly to the people as the cultivation of their lands, and the care of their flocks. The ruffic tribes formed at Rome the first order of citizens; and, in the happiest periods of the Republic, the senators came from the fields to the senate house, in order to deliberate on the most important affairs. L. Quintius Cincinnatus and Attilius were employed, the one in labouring, and the other in fowing his field, when they were fent for to become chiefs of the republic. The latter was elected conful. The first, created dictator at a very critical conjuncture, quitted his rural instruments, came to Rome, which he entered amidst the acclamations of the people, put himfelf at the head of the army, vanquished his enemies, and returned fixteen days after to his country house, to resume his usual functions. The ambassadors. of the Samnites having come to offer a large fum of gold to Curius Dentatus, found him feated near his fire, where he was boiling some beans, and received from him the following sage reply: "Gold is not necessary to him who can content himself with fuch a repast, and who thinks it nobler to conquer those who have gold than to possess it." This illustrious Roman had thrice received the honour of the triumph.

Whilst agriculture was held in estimation Rome coutinued to sourish. "The exercise of that laborious life," says Pliny, formed those men, who distinguished themselvee so much in the military art, but luxury having afterwards given a fatal blow to agriculture, soon completed the ruin of the repub-

Gaul, it is certain, was cultivated very early. The great population of that country, which obliged the inhabitants to fend colonies to Germany and the South, and the facility with which Cefar found subsistence for his troops, all announce that it produced abundance of corn. The Romans, who were well acquainted with the art of profiting by their conquests, spared no pains to advance the progress of agriculture in Gaul. The considerable expences which they bestowed on it rendered it the most fertile and he autiful of their provinces. This source of

riches was, however, destroyed, when the northern barbarians ravaged the empire, and was not re-established till a long time after.

Under the first race of the French kings agriculture was in a very languishing condition, but it acquired fome vigour in the beginning of the fecond race, a period, when the Monks applied themselves to cultivate the earth with a zeal and knowledge, the good effects of which have been ever fince experienced. The reign of Charlemagne, during which every thing affumed a new form, raifed agriculture to a high degree of splendor, but it was not of long duration, for the invasion of the Normans and the feudal fystem, plunged France for a series of years into ignorance and barbarity. The kings of France, however, gradually made regulations in favour of the husbandmen, which rendered their fituation much better. Those of Francis I. Henry III. Charles IX. and Henry IV. were confirmed by their successors. Lewis XIV. added new ones, dictated by that enlightened spirit which began to prevail in his reign; but under Lewis XV. a fondness for agriculture becoming general amongst all ranks, this art made a most astonishing progress. Men of letters did every thing in their power to contribute towards bringing it to perfection; chemists, betanists, philosophers, and naturalists, all directed a part of their researches towards this object, and we have great reason to hope that it will continue to be encouraged still more and more in every country.

#### THEATRICAL BIOGRAPHY.

and plant of the financial and the financial

Queen the Market will shall be only and as

Mrs. Sibbons.

when we have the said the well-by the above provided and

ESTABLISHED habits are with difficulty removed. When the human mind once usurps the possession of a certain train of ideas, it generally retains its bias, and they continue to flow on, in the channel of prejudice, with little interruption

from the feeble efforts of liberality and candour. Mankind in general deprecate the toil of reasoning; the portion of those who think for themselves is comparatively very small. The multitude are content to adopt without discussion, and confequently to approve without judgment, and censure without reason.

There is a certain degree of ridicule attached to the profession of a Player, that the mind seems incapable of resisting; and which, all the powers even of Garrick, Mrs. Jordan, or Mrs. Siddons, cannot altogether remove. In darker ages they have been considered as the foes of religion, and condemned by the anathemas of the church; the liberality of the present has removed every obstacle of this fort, and even honoured some of its professors with marks of distinction, the more honorable as they are more rare.

The mother of Mrs. Siddons was the daughter of a Mr. Ward, the manager of an itinerant company of players in Wales, and the adjacent English counties, who by success and economy made a small fortune. The present Earl of Coventry, then a youth, is said to have been so much struck with her charms, that he sent her letters, with an offer of marriage, which she gave to her father, and the father to the late Earl, by which

means it was prevented.

d

e.

18:

e.

2

r

.

3

3

Bi

So great it feems was Mr. Ward's contempt for his profession that he laid his daughter under the strongest injunction of never marrying a man on the stage; but weak are parental counsels in opposition to the power of the fecundating little god.—The first sight of Mr. Roger Kemble, who travelled with the company in the character of hair dresser, so wrought upon the succeptible heart of Miss Ward, that before it was known they loved, they were secretly married. Papa was outrageous, and it only remained for Mr. and Mrs. Kemble to enter a strolling company in Cheshire and Lancashire.—Here the present Mrs. Siddons was born. Parents sometimes relent—The pride of the mimic monarch gave way to the feelings of nature. After a few years peregrination, they were invited back by Mr. Ward, who resigned the theatric sceptre to Mr. Kemble, and died soon after.

When Miss Sarah Kemble, (now Mrs. Siddons) first attempted the stage, her juvenile efforts, particularly as a singer, were regarded with some hopes of success; but she very early abandoned that line, and attended in particular to tragedy.

ſè

re

d

fi

The vicifitudes of all human affairs are well represented in theatric life.—Here we see monarchs suddenly dethroned, and succeeded by the most menial offices. Miss Kemble being refused the indulgence of her passion for Mr. Siddons, actually resigned her situation, and hired herself as lady's maid to Mrs. Greathead, of Guy's Clisse, in Warwickshire, at 101. per annum.

At the end of a twelve month, however, those two powerful passions—love and ambition—would be restrained no longer. Mr. Siddons eloped with her to Chamberlain, and joined

Crump's company, where he married her.

This was a new established company, and rather unsuccessfult and such was the poverty of their wardrobe, that Mrs. Siddom was obliged, during the performance of the Irish Widow, to borrow a coat of a gentleman in the boxes, to equip herself for the Widow Brady, which she obtained on condition that she gave him her petticoat to put over his shoulders, and admitted him to stand behind the scenes.

Mrs. Siddens's talents were even at this period, allowed to furpals mediocrity, and her application was incellant. From hence the was engaged, with her hutband, by the late Mr. Younger, to perform at Liverpool, Birmingham, &c. where, after remaining a few years, encreasing both in profits and reputation, the was invited to Drury Lane, where the performed the parts of Mrs. Strickland, and the Queen in Richard III. but being considered only as a second Actress on a London theatre, her stay was very short. Some have imputed this to Garrick's jealousy of all merit but his own; but the supposition does too much violence to common sense, to be admitted for a moment.

From London Mrs. Siddons went to Bath, without much hope, it is prefumed, of ever reaching any very pre-eminent station; but extreme parsimony enabled her to support her family on a very small falary. Here, however, she evidently improved, and is said to have been greatly affisted by the instruction of Mr. Prat, who has written so much under the signature of Courtney Melmoth. About the year 1-80, she had attained that degree of excellence, that many amateurs traveled to Bath purposely to see her.

In 1781, Mrs. Siddons had the honour of numbering among her patrons, the Duchess of Devonshire, and Mr. Whaley the poet, whose admiration of her abilities obtained or an engagement at Drury-lane Theatre, at 161. per week; upon which she

left Bath, after speaking a very pretty address, written by herfelf, and in which she produced her three children, as the three reasons for her quitting such generous patrons.

and

re.

lly

to

per

ful

er.

ned

ul:

ons

to

for

the

ed

to

mo

180

ter

m,

rts

ng.

ien:

2-

.00

10-

ch.

nt

a-

ly.

n.

ad.

ng

he

.

ne:

Her second appearance at Drury Lane was on the 10th of October, 1782, in the character of Isabella. This is her greatest character, and she certainly assonished the house, by a display of powers not witnessed since the days of Garrick

Her fame was inftantly founded through the metropolis with fuperlative eulogium. The theatre over flowed every night she appeared, and Melpomene, who had been pushed behind the curtain by the satire of Sheridan's Critic, resumed her former consequence and station. It became sashionable for all the ladies to weep, and sometimes to saint. The sums drawn into the treasury exceeded the receipts of any former season, and the managers, by way of return, gave her an extra benefit, and doubled her salary.

Anxious that her relations might participate in her good fortune, Mrs. Siddons brought her fifter, Miss F. Kemble, to
London, and announced her for Alicia, to her own Jane Shore.
It is impossible to describe the eagerness with which crowds
slocked to see this performance. Judging of Miss Kemble by
the talents of her lister, the public expected another phenomenon,
and the avenues to the theatre were gorged with people by three
o'clock. The screams of women, and the general confusion
which ensued when the doors opened, occasioned a very unpleasant scene. Many were lamed, many had their pockets
picked, and thousands were excluded the house. But they had
no reason to regret this disappointment, as the new Alicia was
even below mediocrity, Miss Kemble remained but a few seasons
on the stage, when she married Mr. Twiss, a gentleman of fortune and some literary ability, with whom she retired.

The managers of Drury Lane, willing to compliment and reward a woman whose powers proved as profitable as the philosopher's stone, gave Mrs. Siddons a benefit before Christmas. Venice Preserved was selected for the play; and a more splendid or crouded audience, perhaps, never graced a theatre. Great part of the pit was laid into boxes; the presents given for tickets by the nobilitry and gentry were immense; and counsellors Pigot and Fielding began a subscription among the gentlemen of the bar, which amounted to an hundred guineas, presented it to Mrs. Siddons, as a small acknowledgment for the pleasure and instruction her talents had given them: to the former of whom

Mrs. Siddons fent the following letter.

" Sir.

"I cannot suppress my desire of wishing you to take upon you the charge of making my most grateful acknowledgements to those gentlemen who have done me the honor of distinguishing my poor abilities in so elegant a manner. Eclieve me, Sir, my heart is too full, and my pen too feeble, to what would become me on this most shiring circumstance of my whole life. The gentlemen of the Bar have given me a consequence I never selt before, and I have just reason to fear the effects of the approbation of so eminent a body. But in all things I will do my best to merit that most honorable distinction which my generous patrons have thought proper to shew me, and to prove myself at least not infensible of the value of their countenance and protection. I have the honour to be, with great respect and gratitude,

" Your most obliged
" And obedient Servant,
" S. SIDDONS."

ju

be

ti

ta

W

M. de

la

W

di

CO

to

lo

de

de

an

D

in

of

W

ne

p.

fu

ne

an

m

in

ed

vi

SI

bl

no

ar

er

fo

W

he

This was an honor unparalleled in theatrical annals; and indeed the benefit was, perhaps, the most lucrative ever known.

In the summer she performed in Ireland; and her first appearance at Drury Lane in September 178, was commanded by their Majesties. Besides an uncommon share of royal countenance, she proved equally attractive this season as the preceding. When the vacation again came round, she again went to Ireland, and from thence to Edinburgh, where she received one thousand pounds for performing ten nights. Her same circulated throughout the kingdom, induced many to travel from the most distant parts of it to see her! and such was the effect of her representations, that innumerable presents of different kinds were sent to her from unknown hands: but the most magnificent was a silver urn, which was conveyed to her after she arrived in London, with the words "A Reward to Merit," engraven on it.

During all this funshine of good fortune, however, a from was brewing in the metropolis. The envy of a competitor may be forgiven:—but what can be faid in defence of those who repine at the success of the meritorious, without the excuse of rival-ship?—It is a crime of the blackest and most unpardonable nature.

A person employed in a newspaper, whose writings have been justly described to be " every line a libel, and every word a lie," because, perhaps, Mrs. Siddons would not comply with his extortions, or footh his viperous tongue by the hospitalities of her table, fet every engine in motion against her: - He lo ided her with opprobrium for not alleviating the distresses of her fifter, Mrs. Curtis, a vicious woman, who would not conform to modefty, though offered a genteel annuity on that condition. This lady read lectures in Doctor Graham's Temple of Health, at which decency would have blushed; and notwithstanding she difgraced her relations in many respects, she expected their countenance and support. With a view of forcing them to accede to her demands, from the dread of public indignation, she fwallowed poison in Westminster Abbey, which probably had the defired effect, as without proving mortal, it furnished a subject of detraction against her fister.

The paragraphical affaffin, in addition to the preceeding circumstance, represented Mrs. Siddons as extremely avaricious and uncharitable: - that the had taken a large fum from Mr. Digges, a once eminent, but then diffressed comedian, for performing on his benefit night in Dublin:—that the had been guilty of a fimilar crime to Mr. Brereton: and that her whole conduct was replete with meanness and inhumanity. To irritate his newspaper brethern, too, he reported that she never read their publications, and equally despited their panegyric or their cenfure; until by invidious fallehoods, industriously circulated, honest John Bull was very clamorous against his favorite actress; and many candid people credited their affertions, while they re-

mained uncontroverted.

m

ts

he-

ir,

ld

fe.

elt

on

rit

ve

n-

I

nd

er

rby

te-

d-

to

ne

ed

oft

er

ds

nt

in

en

ras

be

ne

al-

12-

The boule was crouded on the night of her first appearance in October, 1784; but when the curtain drew up and discovered her as Mrs. Beverly in the Gamester, she was faluted with violent hiffing, and a cry of off! off! intermixed with applaufe. She attempted to speak, but could not be heard; and Mr. Kemble, indignant at the infults offered her, and confcious of her in-

nocence, led her off the ftage.

This excited the vociferations of her friends for her return; and after the turnult had continued for about an hour, her enemies began to relax; and filence being obtained, the came forward; -declared her innocence of what she was accused with :- that the allegations would foon be refuted ; - and that her respect for the public made her consident they would protect Vol. IV.

Mm

her from infult. The play was then fuffered, with very little

oppolition, to go on.

During the whole of this riot Mrs. Siddons acted with great composure and fortitude. Her husband, in a spirited manner, proved the charges respecting Digges and Brereton to be false; and some elegant, nervous letters, inserted in a newspaper, signed Laertes, supposed to be written by Mr. Kemble, operated powerfully in her favor. But still the author of the disturbance was spreading his venom, and creating stories of her parsimony; while to his considents he would whisper with great joy, "You see what a noise I've made!"

The conduct of Mrs. Curtis sufficiently justified Mrs. Siddons's resentment; and Mr. Breieton, by not coming forward in vindication of a woman to whom he was obliged, was generally blamed. The public soon saw the infamy of the whole

transaction, and received her with double kindness.

The authors of this malignant conspiracy, however, had nearly accomplished their design. The object of their enmity, disgusted at a public life so liable to be embittered by the mistake of the multitude, or the combinations of the mischievous, was on the eve of retiring into Wales, on a few thousand pounds which she had saved during the two preceding seasons;—nor was it until the exultations of her enemies at such an event, were fully re-

prefented to her, that she agreed to brave the florm.

Thus were the admirers of the drama on the brink of losing its brightest ornament by the machinations of a villain and their own credulity. Justice, however, triumphed over malignity:
—the temporary cloud of popular delusion suddenly evaporated, and our heroine shone again with increased lustre. Theatrical amateurs, sensible of the injury she had sustained, were eager to shew their contrition, by the most frequent tokens of approbation; and she had more cause of rejoicing than regret at the sutile attempts on her same.

Their majesties about this time paid her many compliments. She was frequently invited to Buckingham house, and to Windfor, where she sometimes recited plays, accompanied by Mr. Kemble; and for several years she had to boast of a greater

share of royal patronage than any of her predecessors.

A great man was so much charmed with her, that a carte blanche was offered and rejected. This Mrs. Siddons told to some triends, which coming to the knowledge of a great lady, any further intimacy was declined; nor has the decree been yet revoked.

At the conclusion of last season, Mrs. Siddons finding her power of attraction on the wane, resolved on retiring from the London stage, until by absence her abilities might regain their wonted allurements. She did not, however, retire from a theatrical life, but performed in Weymouth, Plymouth, Liverpool, &c. &c. where here profits were considerable, but where her superior talents have left an impression that will for a long time cause the exertions of the itinerant players to be received with coolness; and consequently abridge their small emoluments.

d

In the beginning of the winter she visited her friend, Mr. Whalley, at Bath, where it was her design to perform for a few nights, but the regulations of that theatre would not permit it. From thence she went to her worthy patrons, Lord and Lady Harcourt, at Neunham, and resided there a few weeks; but on being seized with a very serious indisposition, she returned to her house in London.

By her emoluments ariting from the theatre, and the numerous and valuable presents of the nobility and gentry, which she has received in all the principal towns in the three kingdoms, she has realized a handsome fortune. She keeps a carriage, and an elegant house in Gower street, Bedford square; and it is said that she has mortgages to a very large amount on Drury lane Theatre.

She is respected, and admitted on familiar terms by many noble families. From her infancy she has been remarkably prudent; nor has her most inveterate enemy ever suspected her continence. She is blessed with great domestic happiness; and her eldest son, Master H. Siddons, has lately shewn a pretty turn for poetry.

The theatrical talents of Mrs. Siddons have to often been the fubject of eulogium, and the public is so well acquainted with them, that it were superfluous to enlarge on her merits here. Nature has bestowed upon her a person, a countenance, a voice, and an understanding competent to depict, in the most vivid colours, the most beautiful ideas of any tragic poet. The slexibility of her features, the expression of her eyes, and the graceful dignity of her department, cannot possibly be excelled; nor has any personner ever shewn more judgment in delivering the sense of the author, or in dressing characters with propriety. If the smallest fault can be discovered, it is sometimes too much violence in her action.

The tenderness of Belvidera, the pride of Calista, or the grief of Isabella, are most happily pourtrayed by Mrs. Siddons. Her

manner of pronouncing "Remember twelve," in the first mentioned part, is most beautifully expressed, and never is heard without the warmest bursts of applause. Whatever were the powers of her pedecessors, it is scarcely possible that they could be superior, if equal, to her own; and at the present time she is indisputably the first tragic actress in Britain—perhaps in the world.

ON ASCRIBING THE INTELLIGENCE ON MAN TO HIS FORM; AND THE EFFECTS OF CLIMATE ON HIM.

FROM ST. PIERRE'S STUDIES OF NATURE.

AN, it has been faid, owes his intelligence to his hands: but the monkey, the declared enemy of all industry, has hands too. The fluggard, or floth, likewife has hands, and they ought to have suggested to him the propriety of fortifying himself: of digging, at least, a retreat in the earth, for himself and for his posterity, exposed as they are to a thousand accidents, by the flowness of their progression. There are animals in abundance furnished with tools much more ingenious than hands, and which are not, for all that, a whit more intelligent, The guat is fur. nished with a proboscis, which is at once an awl proper for piercing the flesh of animals, and a pump by which it sucks out their blood. This probole is contains, befides, a long faw, with which it opens the finall blood veffels at the bottom of the wound which it has made. He is likewife provided with wings, to transport him wherever he pleases; a corflet of eyes studded round his little head, to fee all the objects about him in every direction: talons fo tharp, that he can walk on polithed glass in a perpendicular direction; feet supplied with bruthes for cleaning himself;

a plume of feathers on his forehead; and an instrument answering the purpose of a trumpet to proclaim his triumphs. He is an inhabitant of the Air, the Earth, and the Water, where he is born in form of a worm, and where, before he expires, the eggs which are to produce a future generation are deposited.

ird

he

ld

he

he

With all these advantages, he frequently falls a prey to infects smaller, and of a much inserior orginisation. The ant which creeps only, and is surnished with no weapons except pincers, is formidable not to him only, but to animals of a much larger size, and even to quadrupeds. She knows what the united force of a multitude is capable of effecting; she forms republics; she lays up store of provisions; she builds subterraneous cities; she forms her attacks in regular military array; she advances in columns, and sometimes constrains Man himself, in hot countries, to surrender his habitation to her.

So far is the intelligence of any one animal from depending on the structure of it's limbs, that their perfection is frequently, on the contrary, in the inverse ratio of it's fagacity, and appears to be a kind compensation of Nature to make up a defect. To ascribe the intelligence of Man to his hands, is to deduce the cause from the means, and talent from the tool with which it works. It is just as if I were to say, that Le Sueur is indebted for the happy native graces of his pictures to a pencil of sable's hair, and that Virgil owes all the harmony of his verses to a seather of the swan of Mantua.

It is still more extravagant to maintain, that human reason depends on Climate, because there are some shades of variety in manners and customs. The Turks cover their heads with turbans, and we cover ours with hats; they wear long flowing robes, and we dress in coats with short skirts. In Portugal, says Montagne, they drink off the sediment of wines, we throw it away. Other examples, which I could quote, are of similar importance. To all this I answer, that we would act as these people, if we were in their country; and that they would act as we do, were they in ours.

Turbans and slowing robes are adapted to hot countries, where the head and body stand in need of being cooled, by inclosing in the covering of both a greater mass of air. From this necessity has arisen the use of turbans among the Turks, the Persians, and Indians, of the mitres of the Arabians, of the bonnets like a sugar loaf of the Chinese and Siamese, and that of wide and slowing

M m 2

robes, worn by most of the Nations of the South. From a contrary necessity, the Nations of the North, as the Polanders, the Russians, the Tarters, wear furred caps and close garments. We are obliged to have, in our rainy Climates, three aqueducts upon our head, and garments shortened, because of the dirt. The Portugueze drink the sediment of wine; and so would we do with the wines in Portugal; for in sweet wines, as those of hot countries, the most sugary particles are at the bottom of the cask; and in ours, which are sprightly, nothing is at the bottom but mere dregs, the best is uppermost. I have seen in Poland, where they drink great quantities of the wines of Hungary, the bottom of the bottle presented as a mark of presence. Thus the very varieties of national customs prove the consistency of human reason.

Climate has no greater influence in changing human morality, which is reason in persection. I admit, at the same time, that extreme heat and cold produce an effect on the passions. I have even remarked, that the hottest days of Summer, and the coldest of Winter, were actually the seasons of the year when most crimes were committed. The dog days, say the vulgar, is a season of calamity. I could say as much of the month of January. I believe it must have been in conformity to these observations, that ancient Legislators had established, for that critical period, sessions designed to dissipate the melancholy of mankind, such as the feast of Saturn among the Romans, and the feasts of Kings among the Gauls. In each Nation the session was adapted to the public taste; among the Romans, it presented the images of a republic; among our ancestors those of monarchy.

But I beg leave, likewile, to remark, that those seasons fertile in crimes, are the seasons, too, of the most splendid actions. This effervescence of season acts on our senses, like that of wine. It produces in us an extraordinary impulsion, but indifferently to good and to evil. Besides, Nature has implanted in our soul two powers, which ever balance each other in just proportion. When the physical sense, Love, debases us, the moral sentiment, Ambition, raises us up again. The equilibrium necessary to the empire of Virtue still subsists, and it is never totally lost, except in persons with whom it has been destroyed by the habits of society, and more frequently still by those of education. In that case, the predominant passion, having no longer any counterpoise, assumes the command of all our faculties; but this is

-110

the

Ve

oon

he.

do

hot

he

om

nd,

he

lus

of

ty,

nat

ve

eft

oft

a

ıu-

er-

iti-

n-

he

val

ed

ar-

ile

nis

It

to

ul

n.

ti-

ry

its

In

n-

18

the fault of fociety, which undergoes the punishment of it, and not that of Nature.

I remark, however, that these same seasons exert their influence on the passions of Man, by acting only on his moral, and not on his physical principle. Though this resection has something of the air of paradox, I shall endeavour to support it by a very remarkable observation. If the heat of Climate could act on the human body, it assuredly would be when one is in his mother's womb: for it then acts on that of all animals, whose expansion it accelerates. Father du Tertre, in his excellent History of the Antilles, says, that in those islands, the period of gestation of all European animals is shorter than in temperate Climates; and that the hen's eggs are not longer in hatching, than the seeds of the orange in bursting their shell, twenty three days. Pliny had observed in Italy, that they hatch in nineteen

days in Summer, and in twenty five in Winter.

In every country, the temperature of Climate haftens, or retards, the expansion of all plants, and the gestation of all animals, the Human Race excepted: let this be carefully remarked. "In the Antilles islands," fays Father du Tertre, "the white women and the negreffes go with child nine months, as in France." I have made the fame remark in all the countries through which I have travelled, in the Isle of France, under the Tropic of Capricorn, and in the extremity of Russian Fin-This observation is of considerable importance. It demonstrates that the body of Man is not subjected, in this refpect, to the fame laws with other animals. It manifests a moral intention in Nature, to preferve an equilibrium in the population of Nations, which would have been deranged, had the pregnancy of the woman been of shorter duration in hot countries than in cold. This intention is farther manifested in the admirable proportion she maintains in the production of the two fexes, so nearly equal in number, and in the very difference which we find, of one country from another, between the number of males and females: for it is compensated from North to South, in such a manner, that if there be rather more women born to the South, there are rather more men born to the North; as if Nature meant to attract and to unite Nations, the most remote from each other, by intermarriages.

Climate has an influence on morality, but by no means determines it; and though this supposed determination may be confidered, in many modern Books, as the fundamental basis of the Legislation of Nations, there is no one philosophical opinion

DO

far

to

fe

ho

an

th

al

fo

tie

be

60

ir

b

t

n

more completely refuted by historic testimony. "Liberty," fay they, "has found her asylum in the losty mountains; from the North it was that the haughty conquerors of the World issued forth. In the southern plains of Asia, on the contrary, reign despotisin, slavery, and all the political and moral vices which

may be traced up to the lofs of liberty."

So then, we must go and regulate, by our barometers, and thermometers, the virtues and the happiness of Nations! There is no necessity to leave Europe, in order to find a multitude of menarchical mountains, such as those of Savoy, a part of the Alps, of the Apennines, and the whole of the Pyreneans. We shall see, on the contrary, many republics in plains, such as those of Holland, of Venice, of Poland, and even of England. Besides, each of those territories has, by turns, made trial of different forts of government. Neither cold, nor ruggedness of foil, inspire men with the energy of liberty, and still less with the unjust ambition of encroaching on that of others. The peafants of Russia, of Poland, and of the cold mountains of Bohe. mia, have been flaves for many years past; whereas the Angrias and the Marattahs, are free men and tyrants in the South of There are several republics on the northern coast of Alrica, where it is excessively bot. The Turks, who have laid hold of the finest provinces of Europe, iffued from the mild climate of Asia. The timidity of the Siamese, and of most Asia. tics, has been quoted; but it is to be imputed, in those Nations, to the multitude of their tyrants, rather than to the heat of their countries. The Macassars, who inhabit the island of Celebes, ficuated almost under the Line, are possessed of a courage so intrepid, as the gallant count Forbin relates, that a small number of them, armed with poinards only, put to flight the whole force under his command, at Bancock, confifting of Siamefe and French, though the former were very numerous, and the others. armed with muskets and bayonets.

If from courage we make the transition to love, we shall find that climate has no more a determining power over Man, in the one case than in the other. I might refer myself, for proof of the excesses of this passion, to the testimony of travellers, to ascertain which has the superiority, in this respect, the Nations of the South, or those of the North. In all countries love is a torrid Zene to the heart of Man. I must observe, that these appropriations of Love to the Nations of the South, and of courage, to the Nations of the North, have been imagined by our Philosophers, as effects of climate, applicable only to foreign

mations: for they unite these two qualities, as effects of the same temperament, in those of our heroes to whom they mean to pay their court. According to them, a Frenchman great in seats of love, is likewise great in seats of war; but this does not hold as to the other Nations. An Asiatic, with his seraglio, is an esseminate coward; and a Russian, or any other soldier of the North, whose courts give pensions, is a second Mars. But all these distinctions of temperament, sounded on climate, and so injurious to Mankind, vanish into air, before this simple question: Are the turtle doves of Russia less amorous than those of Asia; and are the tigers of Asia less ferocious than the white bears of Nova Zembla?

he

d

h

d

e

Without going to feek among men objects of comparison and contrast, from difference of place, we shall find greater diversity in manners, in opinions, in habiliments, may, in physiognomy, between an opera actor and a capuchin friar, than there is between a Swede and a Chinefe. What a contract is the talkative, flattering, deceitful Greek, so fondly attached to life, to the filent, stately, honest Turk, ever devoted to death! These men, fo very opposite, are born, however, in the same cities, breath the fame air, live on the fame food. extraction, we shall be told, is not the same; for pride, among us, ascribes a mighty influence to the power of blood. But the greatest part of those Janissaries, so formidable to the sowardly Greeks, are frequently their own children, whom they are obliged to give in tribute, and who pass, by a regular process, into this first corps of the Ottoman soldiery. The courtesans of India fo voluptuous, and its penitents fo austere, are they not of the same Nation, and, in many cases, of the same family?

I beg leave to ask, In what instance was an inclination to vice or virtue known to be communicated with the blood? Pompey, so noted for his generosity, was the son of Strabo, insamously notorious to the Roman people for his avarice. The cruel Domitian was brother to the gracious Titus, Caligula and Agrippina, the mother of Nero, were, indeed, brother and sister; but they were the children of Germanicus, the darling hope of Rome. The barbarous Commodus was son to the divine Marcus Aurelius. What a difference is frequently observable in the same man, between his youth and his mature age; between Nero, saluted as the Father of his country, when he mounted the throne; and Nero execrated as it's avowed enemy before his death: between Titus, stigmatized with the name of a second Nero, in his youth, and Titus at his death, embalment

ed with the tears of the Senate, of the Roman people, and of strangers; and transmitted unanimously to posterity as the delight

pre

ing

CO

ele

arc

the

pa

fer

an

lac

the up lia other for in pa

af at th

w th fir al

01

fa

al

21

fa

e

t

t

of mankind?

It is not climate, then, which regulates the morality of Man; it is opinion, it is education: and such is their power, that they triumph not only over latitudes, but even over temperament. Cefar, so ambitious, so dissolute; and Cato, so temperate and virtuous, were both of a sickly constitution. Place, Climate, Nation, Family, Temperament, no one of these, and in no part of the World, determine men to vice or virtue. They are every where free to choose.

#### ON DOMESTIC ECONOMY.

BY THE MARQUIS D'ARGENSON.

IT is at prefent required of masters and mistresses of families, not to appear too much taken up with the care of doing the honours of their tables, &c. Nothing appears more ridiculous than to fee the lady of the house torment herself, give her keys to fervants to fetch different things she has in her own particular keeping, which she distributes, with circumspection, on great occasions; afterwards pressing people to eat of what she thinks good, as if they had it not in their power to have as good things let before them every day These manners are so impolite, provincial, and ruftical, that they are even banished from the genteel citizens houses of Paris, from the provinces and chateaux. A house should be so well regulated, that by a sign, or a word, from the mafter or mistress, every thing should be in its place, and the company well ferved. But if, in the course of the day, they should be disengaged from company, the mistreis should referve to herfelf moments of recollection, in private with her fervants, when she should reckon the expences of the preceding day, and give her orders for the prefent and succeeding ones; should know what every thing costs, and what becomes of it. In houses where masters and mistresses are too elevated to descend to these minutia, a trusty and faithful steward ought to be charged with it; but, as in a well managed theatre, the machinery and decorations should be so well prepared as to make every thing appear at the moment of representation, to be the effect of the stroke of a magic wand.

I know of a good citizen's house, the master of which is rich and eafy, wherein the common order of things is reverfed. The lady commonly charges herfelf with the daily expences; there the contrary is the case; the mistress of the house prides herself upon her wit; and one great means the employs to gain a brilliant reputation is, to give regularly, on certain days, a dinner, on others a supper, to those who have most wit and information. The fortune of her husband is equal to these expences; he kindly gives into them with a good grace, and is as well pleafed as the company with the elegance of her tafte. But, although he feems not to be interested in the differtations at which he is present, asks no questions, and never fays a word, I know, from good authority, that he amuses himself with them. How do we know that he does not liften as a critic; it is certain, that this man, who fays not a word, except in helping his friends at table, in the most polite manner, who feems in the house, as an humble friend to the lady, and to give orders about any thing, spends all his morning in regulating the family expences, and writing out the bill of fare for dinner: he fcolds his fervants when they fail in the least part of their duty, and prescribes them precise and exact laws for the future; his people tremble before him; and he takes the liberty to reprimand his wife, when, by her fault, the expences are too great, or the dinner is not good enough.

There is nothing which a philosophical observer may not turn to advantage; and this gentleman might find in the study of these little domestic affairs, an interest of considerable magni-

tude.

of

m;

y

nt.

nd

te,

irt

re

13

S

r

8

.

fi

it

# ABSTRACTS OF THE ABBE BERTHOLON'S PAPER ON FIRES, AND THE MEANS OF EXTIN-

PUBLISHED IN THE LAUSANNE MEMOIRS.

HIS subject is important and interesting, although the Abbe has rather collected the observations and experiments made by others, than conveyed any new and original information. He ascribes the inflammability of bodies to the inflammable gas which they contain, and which, on their decomposition by heat, is let loose, and coming into contact with the atmosphere is ignited, and burfts out into flame. The principal part of the memoir is devoted to a detail of the means of preventing and extinguishing fires; and here the author's chief advice, which is " in the construction of buildings, to employ as little as possible of those materials which yield inflammable air on their decomposition," will be allowed to be perfectly just in theory, but will probably be little followed in practice; nor is the fecurity refulting from brick floors likely to compensate, in this age of affected elegance, for their appearance. He informs us, however, that M. Ango, an architect of Paris, has contrived a method of constructing a floor with iron bars, instead of timber joifts, which is even lefs expensive than the common mode. The wood used in buildings may be rendered uninflammable, by being flepped in a faline folution, and by being prepared with allum, even canvass and paper hangings may be made to burn without flame.

Many other precautions are mentioned by the Abbe, which we shall not detail, as they are universally known, and we be lieve pretty generally adopted. After describing the inventions of Mr. Hartly and Lord Mahon, together with a preparation similar to that of Lord Mahon's, recommended by M. Frederic, of Vienna, the Abbe gives an account of a substance, which he calls paper stone, invented by Dr. Faye, physician to the Swedish admiralty: its composition is not known, but from a chemical

analysis it appears to consist of two parts of an earthy basis, and one of animal oil, mixed up with two parts of some vegetable fubstance. At Carlscrone a hut was built of dry wood, covered with this paper, which is not more than two lines in thickness, it was then filled with combustibles, which were let on fire and confumed without burning the buildings; the paper, which had been pasted on boards, was reduced to a cinder, and formed a kind of incrustation, which preserved them from the effects of the flame. As this paper readily takes any colour, it may be rendered ornamental as well as ufeful.

In his directions for extinguishing fires, the Abbe observes that water, in which a finall quantity of potash has been dissolved, is more efficacious than any other; he also recommends an engine called an hydraulic ventilator, invented by M. Castelli, which is worked by vanes instead of pistons, and may be managed by one person. The advantages ascribed by our author to this machine are very confiderable, but we cannot suppress our aftonishment on being told, that with a cylinder of only three inches in diameter, it ill throw up more water than the largest fire engine; however, it certainly appears to be less expensive and more portable than the common forcing pumps, and may be of use in extinguishing a fire, before it has made any great progress. The utility of garden mould with wet fand in this retpect, is well known, but it can feldom be applied, and we doubt the efficacy of the kind of catapulta which the author recom. mends, for throwing it to any distance.

The remainder of the memoir contains some very just and obvious remarks on the necessity of a regular discipline among firemen, and it concludes with a description of the engines, cifterns and pipes at the opera house in Paris, the construction and arrangement of which the Abbe recommends to be adopted

in every public theatre.

and the South and seek Being to Appropriate Constitution of the Constitution of the Selection of the select 

materials are seeing proper and a contract of succession

Remarkable instance of the great patience, under bodily pain, of the Indians inhabiting the banks of Oroonoke; from father Gumilla's account of that little known and extensive country.

HE man who aspires to the character of a hero in this country, begins by attaching to himself a certain number of men, whom he gains either by the reputation of his valour, or by the interest of his relations and friends. When his adherents amount to an hundred, he provides plenty of Chicha\*, invites the caciques and captains of his nation, recites his exploits, and requests that he may undergo the Trial, in order to his being received a chief or captain. The judges having admitted his petition, place him naked in the middle of the room, and the eldest captain, with a well knotted whip, gives him a handsome number of lashes at different times, the ceremony continuing till all the chiefs are fuccessively tired and spent with whipping the poor wretch. The caciques and all prefent keep profound filence during the operation, observing whether the candidate bears torture like a man of courage; for the flightest plaint is enough to oblige them to refuse him their suffrages, and to exclude him from the two remaining trials. But if, without any fign of impatience, and like a statue, he endures this deluge of stripes, that flay him alive, and cover him with gashes, they are lavish in their applauses, and all get drunk with him in demonstration of their joy. Thus ends the first trial.

But this, barbarous as it is, is nothing when compared to those following. After the candidate has allowed himself some months for the healing of his lacerations; he provides the same quantity of Chicha, appoints a day, and the chiefs being met, he is put naked into a cotton hammock suspended between two trees, the hammock wrapt round him, and bound with three cords, one at each end, and one in the middle: then the captains open a little the two ends of the hammock, and blow into it, through a hollow cane, some thousands of the large pismires of this country, whose bite is such, that when you would pull them

<sup>\*</sup> An intoxicating liquur.

off, they will fooner leave their heads than let go their hold. Thus he lies in the midst of five or fix thousand pismires, who gnaw his flesh on all fides, without his being able to avoid them, or even to turn or stir; for the formality of his trial requires perfect stillness, and its good or bad iffue depends on that, or on a fingle motion, manifesting his impatience of the pain these devouring vermin give him. And if by chance there should be the least fign of it escape him, when they bite the eyelids, or other delicate parts of the body, his cause is lost, his trial turns to his shame, and he is rendered incapable of obtaining the rank of captain. But on the contrary, if he fuffers with courage during the time prescribed by their law, they congratulate him, and hasten to deliver him from the infects that cover him from. head to foot; this is done by means of an cintment, which obliges them to let go their hold: then all go to drinking till they can drink no more; for thus commonly they finish their assem-

blies on great affairs.

dily

ko;

md

hjs

en,

he

a.

he

e-

e-

he-

ne

ng

ıg

id

te

18

y

f

e

The third proof, which we may call infernal, is made in the manner following. The chiefs being met, a hurdle or a kind of wooden gridiron, is fixed about an ell from the ground, fuffi. ciently large and strong to receive the body of a man. On this they lay fome plantain leaves, which are about an ell long and half an ell wide. The candidate places himself on this couch, or rather scaffold, lying on his back, putting into his mouth a hoilow cane, which is to ferve him in breathing: then they cover him entirely and closely with plantain leaves, observing to pierce those that are over his head, so that his cane may pass through them. A fire is then kindled under him, so ordered that the flame shall not reach the grate, but may give heat enough to breil this ignorant victim. Some, appointed for that purpose, are employed in augmenting or diminishing the fire, that it may neither fall short of, or exceed, the degree prescribed by the law, while others observe with care, whether the patient moves or not, the least motion being sufficient to exclude him for ever from the station he aims at. Others are placed near the cane, to observe if his breathing is strong or weak; and when the time of trial is expired, they immediately remove the covering: if the candidate is found dead, he is lamented with tears and cries by the whole affembly; but if living, the woods refound with their acclamations; they felicitate him, drink his health, and hold his valour fufficiently proved.

#### FENELON.

VERY man of worth and of literature must grieve that there has been no good life of this excellent prelate yet published: that written by the Chevalier Famfay is a trifling performance, and composed with none of that enthusiasm which one would have thought the living familiarly with this great prelate would have produced, and which made Lord Peterboro' cry out, when he had only passed a few days with him at his palace at Cambray, "If I flay here two days longer, I fhall become a christian in spite of myself." His famous book, the Maxims of the Saints, was condemned by the pope, who was still, however, fo much imprest by the purity of the prelate's character who composed it, that he wrote to some of his brethren who were in opposition to him-" Hic peccavit excessu amoris divini, sed vos pecciftis defectu amoris proximi." Fenelon fo completely fubmitted to the pope's decision, that from his own pulpit, at Cambray, he denounced his own book as heretical, and as having defervedly incurred the centure of the head of the catholic church; and made a present to the society of the church of Cambray of a magnificent case for the consecrated wafer, embossed in gold, and supported by two angels, one of which is trampling under his feet some heretical books; amongst them is one with this title, "Maximes des Saints." The Duke of Marlborough used to give his officers a particular charge never to do any mischief to the estates of the archbishop of Cambray. He is buried in his own cathedral, where his family have erected to him a monument.

Drevet's famous print of Fenelon is the best commentary upon the Duke of Saint Simon's description of this excellent prelate. The eyes appear to strike with sacred sire. His directions for the conscience of a king was written for his dear pupil, the Duke of Burgundy; and, from the good sense, and the sound morals with which it abounds, might be recommended to the perusal of every sovereign. His treatise on the education of young women is excellent, and written with that elegance and simplicity of style, which in general characterise the writings of FeneIon. When the Duke of Burgundy was on his way to take the command of the French army, he paffed through Cambray, and paid a vifit to Fenelen, who was then in difference with Louis XIV. On parting, he took him by the hand, and faid, "Je fais ce que je vous dois, and vous favez ce que je vous fuis."

on best beautiful we work affection

DESCRIPTION OF A METHOD OF INCREASING PO-TATOES, IN A LETTER FROM Mr. JOHN LOCKETT, OF DONNINGTON, TO MR. MOORE.

From the Thirteenth Volume of the Transactions of the Squiety instituted at London, for the Encouragement of Arts, and Manusactures, and Commerce.

"SIR,

"HAVING lately seen in the news papers, various methods proposed in order to increase and multiply potatoes in the most effectual manner, I take the liberty of sending you an experiment which I have repeatedly made; also a method to procure plants in a very cheap and easy way; not after such as the present winter, but after a mild winter, when the frost has penetrated but a small distance below the surface of the ground.

First, as to the experiment; I took three potatoes, the 17th December, 1793, and put them in a small cask, and placed the cask in a cellar: the 10th of March, I took off fifteen shoots from them, and planted them with a setting or dibbling slick, in the same manner as cabbage plants, about one foot square; the 16th of April, I took twenty one more shoots from the same three potatoes, and planted them as before: on the 22nd off May, I took twenty sive shoots more, and planted them also, and then washed and boiled the said three potatoes, which prove

Nn 2

ed very good to eat. I had from the faid fixty one floots, as many potatoes as weighed ninety two pounds; notwithstanding

the rooks did me much damage.

"My method of procuring plants after a mild winter, is to go (about the month of May) over the fields where potatoes were planted the preceding year, and pull up from among the corn all the shoots produced by the potatoes left in the ground the preceding autumn, which had escaped the digger; and plant these shoots in the same manner as above, viz. the same as cabbage plants.

I am, Sir,

Your very humble fervant, JOHN LOCKETT."

Dennington, March 1, 1795. Mr. MOORE.

#### ANECDOTES.

PR. South, one of the chaplains of Charles the Second, preaching on a certain day before the court, which was compeled of the most profligate and dissipated men in the nation, perceived in the middle of his discourse, that sleep had gradually taken possession of his hearers. The doctor immediately stopped short, and changing his tone of voice, called out to Lord Lauderdale three times. His lordship standing up. "My Lord," says South, with great composure, "I am forry to interrupt your repose, but must beg you that you will not snore quite so loud, left you awaken his Majesty."

Charles the hifth having one day approached very near to a battery of cannon, one of his officers begged him not to expose his person in that manner; upon which the Emperor smiling.

faid, "Did you ever fee a bullet hit an Emperor?"

Wing coulder, which park

3

ちに アンd

23

I.

Twit third wild dwing where and engle eye.

Per la trace y debation in a c'yproper de la femilia de la

THE SHALL HAVE SHEET OF SEA SHEET WILL AND SHEET

To the A tiretake world garkhisse, a chi we da we day the garkhis the garkhis and the garkhis

## POETRY.

### EULOGIUM,

By the Genius of the East, on Sir William Jones.

From Mr. Maurice's Elegiac and Historical Peem, facred to the Memory and Virtues of the Honorable Sir William Jones.]

To chase the tenfold gloom, my Jones was thine,
To cheer the Brahmin, and to burst his chains;
To search for latent gems the Sanscreet mine,
And wake the servour of her ancient strains.

For, oh! what pen shall paint with half thy fire,
The power of music on the impassion's foul,
When the great masters waked the Indian lyre,
And bade the burning songelectric roll?

The mystic veil, that wraps the hallow'd shrines
Of India's deities, 'twas thine to rend:
With brighter fires each radiant altar shines,
To nature's awful God those fires ascend.

Sound the deep conch; dread Veefhnu's power proclaim,
And heap with fragrant woods the blazing urn;
I fee sublime devotion's noblest flame
'Midst superstition's glowing embers burn!

Twas thine, with daring wing, and eagle eye,
To pierce antiquity's profoundest gloom;
To fearch the dazzling records of the sky,
And bid the stars the sacred page illume.

Nor did the instructive orbs of heaven, alone,
Absorb thy soul 'mid you ethereal fields;
To thee the vegetable world was known,
And all the blooming tribes the garden yields;

From the tall cedar on the mountain's brow,
Which the fierce tropic florm in vain affails,
Down to the humblest shrubs that beauteous blow,
And scent the air of Asia's fragrant vales.

But talents—fancy—ardent, bold, sublime— Unbounded science—form'd thy meanest fame; Beyond the grasp of death, the bound of time, On wing s of fire religion wasts thy name.

And long as stars shall shine, or planet roll,
To kindred virtue shall that name be dear !
Still shall thy genius charm the aspiring soul,
And distant ages kindle at thy bier.

#### TRANSLATION OF A HYMN,

and Virtura

Written by La Source and Sillery, and fung by them every Night, when imprisoned in the Luxembourg, and in expectation of Death.

[From Miss WILLIAMS's Sketch of the Politics of France, from the 31st of May, 1793, till the 28th of July, 1794, Vol. I.]

Our fouls, and lend thy pow'rful aid, O fource of mercy! foothe our pains,

And break, O break, our cruel chains ! To thee the captive pours his cry, To thee the captive pour. To thee the mourner loves to fly; 'Tis all the incense we can give, Eternal Pow'r, our cause defend,
O God of Innocence the friend! Near thee for ever the refides, In thee for ever the confides. Thou know'ft the fecrets of the breaft, Do thou our wrongs with pity fee, Avert a doom offending Thee : But, should the murderer's arm prevail, Should tyranny our lives affail, Unmov'd, triumphant, scorning death, We'll blefs Thee with our lateit breath. The hour, the glorious hour will come, That confecrates, the patriot's tomb : And, with the pang our mem'ry claims, Our country will avenge our names.

#### A SAILOR'S DESCRIPTION

the stage a find with our new married with

#### OF A MASQUERADE.

To see the sine shew and the folks:
But for fear of mistakes we thought best for to sup,—
For these courtiers have conical jokes.

When first we came in, I was maz'd to behold, Night at once was all charg'd into day; The folks seem'd to roll like a vast sea of gold, And the gall'ry stuff'd full like a play.

Little Moll dropt aftern, being afraid to make fail, 'Till I at her helm took a spell;

When whip in a trice she steer'd up within hale Of the Devil, just landed from Hell.

Lord bless me, fays she, Ben! why where have we gt!
This company's too good for we?
Sure at home he was cold, and's come here to be hot,
For such Devils I never did see!

The Devil! ne'er mind—heave-a-head, my dear girl,
And I'll shew you the king of the crew;
Each duke, ev'ry dutchess—each lady and earl:
And when I bumb—do you courtsy—do I

Like a tragedy Queen, when Moll faw the King, Plump on her bare knees she fell down; But, by Neptune, I soon made her rise with a spring, And swore she knew nought of the town.

We parted—and I, faith, who love to be finart, Clapp'd on board of a thepherders fweet, Who, with no other crook than her eyes hook'd my heart As fast as if prest in the sleet.

She pull'd me about (till parch'd was my mouth)
At the rate of ten knots by the log:
But I foon found this king was no tar—but a youth,
For he burgundy gave us as grog.

This gay little shepherdess, faith, was so smart,
She tow'd me from pillar to post;
Some call'd me a lubber, unsit for my part,
And reck'd on the masquerade coast.

Mandarins and Nabobs were as plenty as rice, Jews, Negroes, Banyans, and what not? There were characters, purchas'd at ev'ry price, Unless the raw, bra, letter'd Scot.

In this ocean of pleasures, egad, there were tars
Who ne'er past the buoy of the Nore;
There were soldiers like Hymen, who knew not of wars,
And domino sools by the score.

There were pilgrims and quakers, blacks, witches, and nuns,
Minervas without fense or tongue,
Who falter'd and lisp'd out some feminine puns:
"De you know me;"—was all—said or sung.

Grave conjurors too, who no'er conjur'd before,
And harlequins, heavy as drofs.

Mild Night too, who long shone the fun of this shore,
But set in the fair Mrs. Ross.

Old wives were at once to dull gen'rals turn'd,
And Taucred, in forrowful strain,
Wept Phillips's wrongs—and then instantly burn'd
For Diana from lewd Drury-lane.

There was supper they said—we got nothing to eat:

Here a fort, there a town, here St. Paul;

But all cramm'd, as at short allowance of meat,

Gorging garrisons, gardens, and all.

By strange kitchen alchymy, ev'ry dish Seem'd transmuted for Epicure Mammon; There was sishified fiesh, and sieshified tish: A calts-head seem'd a fine jole of salmon.

When I thought I took one thing, another I got;
The French cook fo well knew his trade,
That ev'ry thing look'd like what it was not,
And the dishes were all Masquerade.

There were none lost their wit, there were some lost their In short, 'twas all Hebrew to me; (sweat So my anchor I tripp'd with my kind little Bet,

And paid Moll with a top-sail at sea.

#### ON SUICIDE.

A THOUGHT FROM MARTIAL.

T.

WHEN fate in angy mood has frown'd,
And gather'd all her ftorms around,
The fturdy Romans cry,
The great, who'd be releas'd from pain,
Falls on his fword, or opens a vein,
And bravely dares to die.

II.

But know; beneath life's heavy load, In there affliction's thorny road. 'Midst thousand ills that grieve. Where dangers threaten, cares infest, Where friends forsake, and foes molest, 'Tis braver far to live.

#### VERSES SENT TO A LADY ON HER BIRTH-DAY.

In the gay feason of ingenuous youth,
While inborn honour points the road to truth,
And the first hopes are to be lov'd and wise:
Oh may each fragrance of life's spring be thine,
And the rich harvest of content divine!
A taste superior, the sublime of mind,
All softer feelings, delicate as kind;
Passions obedient to the laws of sense,
And all the transports of benevolence.

But when the bleffings of thy MORN decay, And thou shalt reach the NOON of human day; May sober Reason guide thy gentle heart; Still to perform with grace the important part; Haply thy babes shall catch that grace of thee (Those living pictures of thyself and me) The modest miniatures shall lisp thy worth, And often help their sire to bless thy birth.

At last, when Age exterior bloom decays, And in thy forehead Time his track displays; When Heaven with envy views my happy state, And courts thy spirit to a nobier fate; When Health's ripe roses on thy cheek shall die, And Sickness cloud the summer in thine eye, May sacred Virtue soothe thy Christian mind, Calm in decay, and vigorous though relign'd; Clear to their ebb may all thy pleasures slow, And smile like evening sun-beams as they go; Then late, long honour'd, may thy spirit sly, And angels han it welcome to the sky.

### INDEX

TO THE

## FOURTH VOLUME.

### P R O S E,

Apparition in France	age 42
Apollo of Belvidere, account of	58
Apology for falling	58 64
Account of remarkable poiloneus infect in South America	68
Advantages of a taffe for the beauties of nature, by Percival	85
Account of courtship and Marriage of Dr. Johnson	83
Atenfide, Genius of	. 90
Advantages of the focial principle	105
Ante, black, of Africa, observations on	125
Anecdotes 136-155-208-282	
Account of the fall of a mais of fnow from the Alps	243
Account of the Philosophers who believed in a plurality of world	15 271
Air, of the, supposed to come through the pures of the fkin	319
Alps, de Sauffure's Journey totop of	387
Agriculture, thort hiftory of	398
B.	33
Beaver, Goldsmith on the	95
Blanc, Bourrit's description of	104
[22] 이렇게 보는 12(2) 아이 아이스 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	223
Bengal, Tour to	L-British Lines
Boli gboke, character of	241
Bellevues on fome new flexible and elaftic flones	382
Copper mine at Fahulin, description of	17
Comet, account of, discovered in 17975.	184
Catos, two compared	164
Cow, Natural biftory of	1:70

### INDEX.

Conspiracy, remarkable	19:
Constantinople, description of	327
Chappe Abbe, Life of	36
Total Control of the	
Description of Copper mine at Fahlun	德巴特里亚17
Dampers, description of the	34
Debates of a Female Society.	37
Dutch method of employing dogs	179
Dialogue written in the manner of Plate	266 266
Dances of Turkish Dervises	310
Diogenes, account of	378
Domeftic Economy	416
	· 经基础的 等点
Extraordinary instance of gratitude	39
Extract from Rousseau's Social Contract	6
Epidemie diseales, en	1 157
	TOTAL HOUSE
Temale mind, peculiar features of	13
Faffing, Apology for	64
Fothergill, life of 75-2	100-843-371
Female Society, debates of Force of habit, remarkable inflance of	179
Fires, Bertholon on	319
Fenelon, Biographical notices of	48
C. C	422
Greek Dream. By M. de Guys	
Gratitude, Extraordinary inftances of	84
Greeks, Modere, observations on	39
Genius of Retribution, a Vinon	303
Gravity, de Luc on	384
Grifgris and Mumbo Jumbo, account of	395
	14. 中国国际公司
Helvetius, Life of	3
Heated bodies, on their increase of weight during cooling	\$ 169
Indular Demarks on No. 111	
Industry, Remarks on, No. 111.  Johnson's courthin and Marriage	30
Ignorance, pleasures of	88
Imaginary ideas, on	113
Intelligence afcribed to the human form, observations on	374
	410
Life of Helvetius	General Street Street
Fothergill 75-20	0-343-371
Moliere	147-229
Ignatius Loyola	289
Lope de la Vega	323
Abbe Chappe	362
Mis. Siddons	402
Luxury, Volcaire on declamation against	100
Letter from Pope to Swift, on changing his religion.	131
Letter from J. T. Evans	137
	208
Mork, Review of	
Microscopes, invention of	53.
	119